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Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

January 2, 1961

THE OUTLOOK IN CONGRESS
PAGE THREE

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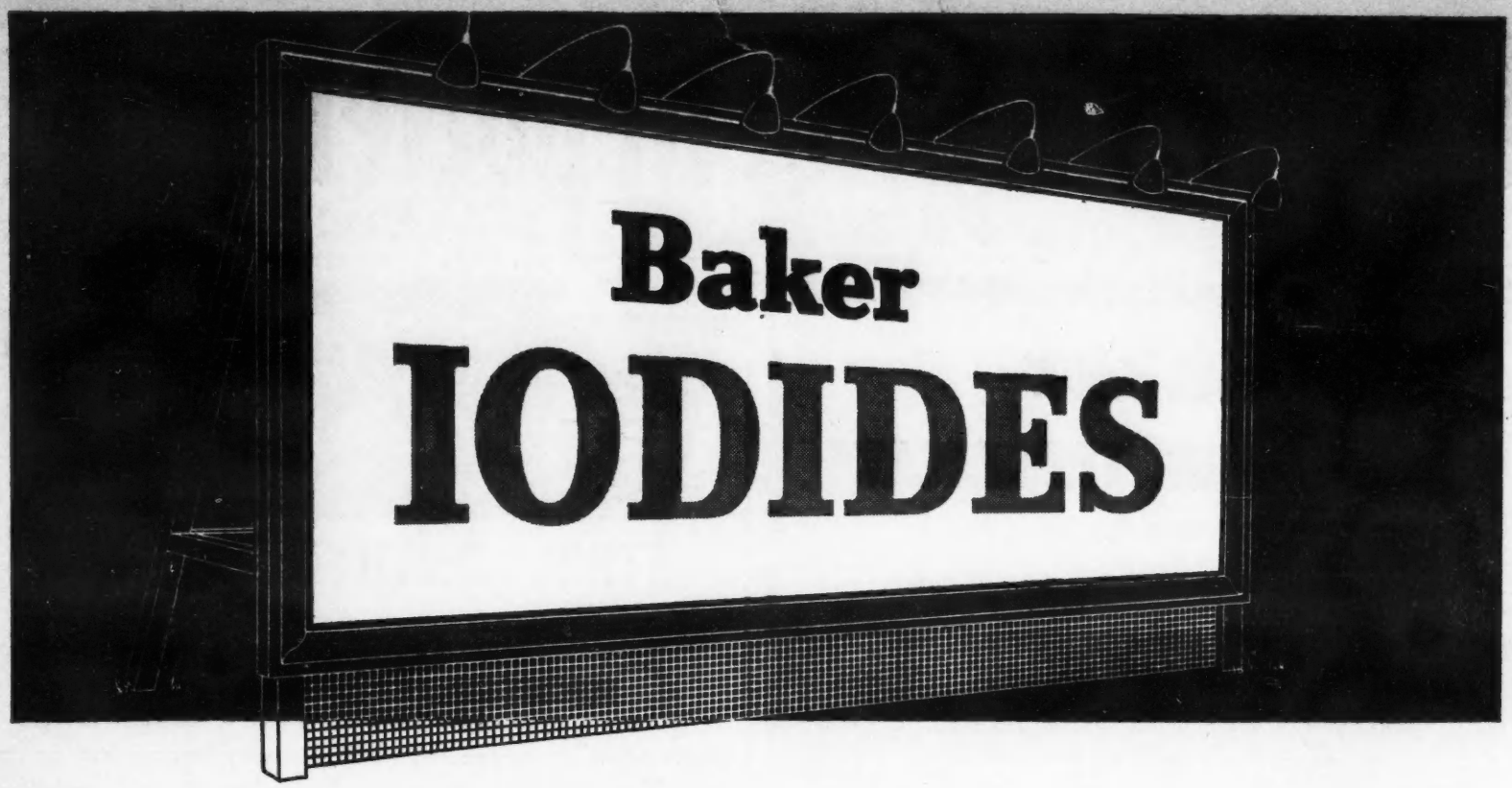

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CHEMICAL LEGISLATION

What the Eighty-Seventh Congress Will Do

	PURPOSE	PROSPECTS
Air Pollution	To provide new federal control legislation for air pollutants.	**EVEN CHANCE. House committee plans a series of of hearings to lay groundwork for new legislation. Passage is rated fifty-fifty, if not this session then in the next.**
Antitrust	To require prior notice to government of mergers involving $10 million or more.	**UNLIKELY. Kennedy administration must make real push.**
Conflict of Interest	To set up tighter controls over outside interests and connections of government workers.	**FAIR. Republicans and liberals may join for action.**
Cosmetic Additives	To require pre-testing of ingredients and end-products of cosmetic industry.	**UNCERTAIN. Food & Drug Administration is working on legislation, but it may be late in introduction.**
Depressed Areas	To aid industries in labor surplus areas with special contract priorities, etc.	**GOOD. Rising unemployment and lagging business will speed action.**
Drugs	To provide broader factory inspection, closer records supervision and extension of antibiotics certification.	**GOOD. FDA bill will be correlated with broader proposal of Sen. Kefauver.**
	To provide for licensing of manufacturers, tighter advertising controls, etc., planned by Sen. Kefauver.	**GOOD. Licensing feature may be dropped to salvage other parts.**
	To limit patent rights of drug manufacturers.	**UNLIKELY. Compulsory licensing or shortening patent period opposed by all industries as general proposition.**
	To regulate more closely production and sale of barbiturates and amphetamines.	**FAIR. Much depends upon how much public interest can again be stirred up over this problem.**
Food Additives	To extend March 6, 1961 effective date.	**GOOD.**
	To remove conflict between Delaney clause and prior sanctions under new drug law.	**UNCERTAIN. Congress refused to consider this last session. Strong selling job needed to arouse interest.**
	To provide for ad hoc or scientific panels to pass on safety of carcinogens.	**UNLIKELY. Congress fears tampering with Delaney clause.**
Functional Discounts	To require sellers to grant functional discounts to all customers.	**DOUBTFUL. Department of Justice and Federal Trade Commission have strongly opposed previous bills.**
Health Insurance	To provide hospitalization benefits to those on Social Security rolls.	**UNCERTAIN. Though in top position of Kennedy program, conservative opposition may stymie the bill.**
Minerals	Various proposals to support domestic mining industry with higher tariffs and subsidies.	**UNCERTAIN. Kennedy administration has promised help, but methods are unclear.**
Price Discrimination	To limit the use of "good faith" in price discrimination cases.	**UNCERTAIN. Outlook for the bill was not improved by November election that cut back size of liberal bloc.**
Taxes	To reduce depletion allowances for oil industry.	**DOUBTFUL. New Presidential Economic Adviser favors a cut, but Speaker Rayburn and Vice-President-elect Johnson can block it.**
	To exclude lobbying expenditures from taxation.	**UNCERTAIN. Chemical industry will support proposal along with other industries, but issue is unpopular with rank and file of house.**
	To clarify rights of states to tax incomes of "foreign" corporations.	**FAIR. Corrective legislation died in last session for lack of time.**
Wages	To increase minimum wage from $1 to $1.25 an hour.	**GOOD. This is one of main promises of Kennedy and vigorous fight will be made to keep pledge.**
Water Pollution	To increase federal controls and increase federal contributions to states.	**GOOD. Kennedy has indicated he will not veto increase in federal aid.**

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Chemical Industry's New Game Is Watching Over Both Teams: Congress and the Administration

Tomorrow (Tuesday, January 3) marks the beginning of a new period of watchful waiting for the chemical industry—waiting to see what gives with a new congress and a new administration. On that day, the legislators return to Washington to open the first session of the eighty-seventh congress whose complexion, if changed at all by last November's election, is probably a shade more conservative than before. But the congress is likely to be more ready and willing to take orders from the White House now that it, too, is in the hands of the Democrats.

COMPANY OFFICIAL: William Weston, named executive vice-president of Ultra Chemical Works, Inc., a subsidiary of Witco Chemical Company, New York.

Chemical producers are naturally quizzical as to what the change in administrative command is going to mean to business activity generally—and, incidentally, to business relations with the departments—but the answers will be slow in coming.

Must Wait for the Trends

Industry will have to wait until trends have had a chance to develop and this may take several weeks, if not months. But one thing is certain—there will be enough legislation of immediate concern to the chemical industry to keep it on the constant alert.

Taxes, water and air pollution controls, antitrust, new gimmicks for protecting consumer interests, health insurance, depressed area relief, etc., are all matters on tap that will be taking shape in one form or another in the session just ahead.

How far they may advance this year depends upon the amount of pressure put behind them by special groups who hope to benefit—or by the White House.

Congress will be somewhat slower this year in getting started than is normally the case due to the fact that it must organize, appoint its committees, select its presiding officers, adopt rules of procedure and do all the other necessary things that accompany a new congress moving into power.

Also, there is the fact that President-elect Kennedy doesn't officially take over until his inauguration January 20. Before swinging into legislative action, the various committees of congress will wait on the President's program.

The eighty-sixth congress was the important congress for the chemical industry. It was during the two years of its existence that the food additives, the color additives and the hazardous articles labeling bills became law.

Legislation Unlikely to Cut Wide Swathe

Legislation in the new congress will also affect the industry, but is unlikely to cut such a wide swath across all branches of the industry.

Unless the White House countermands the program of the Food & Drug Administration, bills will go into the legislative hoppers, carrying the FDA label and seeking: (1) to extend the new policy of pretesting consumer goods to cosmetics, (2) asking for extension of the effective date of the food additives law, and (3) demanding closer inspection of factories,

—*Continued on page 26*

FDA and Its Chief In the Clear: Kendall

Food & Drug Administration is guiltless of any wrongdoing, and so is its commissioner, George P. Larrick. So reports the Kendall committee, which has just probed FDA from top to bottom and found it without any major faults.

But just to be sure that the agency stays that way, a new office is to be set up within the agency to ride herd on employee conduct and to keep the commissioner informed of any complaints.

And, the door is to be closed a little tighter against industry contacts with officials.

These developments came to light last week with the issuance of the report of the three-man committee, headed by Charles H. Kendall. The group investigated the activities of FDA employees as an aftermath of charges leveled before the Kefauver committee last summer, and the actions subsequently taken by Secretary of Health, Education & Welfare Arthur S. Flemming.

The Kendall committee concluded, upon all the evidence developed in its six months of investigation:

- That there is no reason to believe that any present employee has personal financial interests conflicting with obligations of his government employment.
- That there are no situations existing within the agency similar to that relating

—*Continued on page 46*

FD&C Red No. 1 Ban May Be in for Easing

Food & Drug Administration is considering relaxing its ban on the use of FD&C Red No. 1.

An order now being prepared in the agency would permit the use of this large-volume coaltar dye in drugs for external use and for external cosmetics. The use of the dye was ordered prohibited (OPD, 11/28/60) because of evidences of liver damage in laboratory animals.

Chemical Bird-Proofer An Inauguration 'Must'

The Inaugural Grandstand Committee, arranging for things at the inauguration ceremonies for President-elect John F. Kennedy, has a job ahead in making the trees along the parade route bird-proof.

It has called in a contractor to spray them with a chemical compound known as "Roost-No-More." After one spraying there won't be any birds in the trees. Probably won't be any Republicans, either.

Czechoslovakia Making Move To Catch Up in Petrochemicals

Czechoslovakia, currently lagging behind a number of other European nations in petrochemistry, is determined to get into the petrochemical field in a big way by 1965. During the course of the present five-year plan (1961-1965), the share of the coal chemicals—which amounted to 95 percent in 1958 as raw material for organic intermediates, synthetic resins and fibers—will drop below 50 percent four years hence.

The plan calls for construction of large plants, according to the German magazine *Chemische Industrie*, which will produce more than 100,000 metric tons a year of ethylene and 50,000 tons a year of propylene. Butylene, acetylene and butadiene will also be produced.

Output for Plastics, Synthetics

Along with production of ethanol, ethylene oxide and other materials, the major portion of the output will go for production of plastics and synthetic fibers.

Development plans depend on the construction of pipelines from the Soviet Union to satellite countries. One such pipeline is scheduled to reach Bratislava by the end of 1961.

In this city is located the major refinery "Slovnaft" along with a surrounding chemical combine in which phenol, acetone (both from cumene), polyethylene and polypropylene will be produced. Everything depends on the Soviet pipeline.

Other facets of the Czech five-year plan include:

- Nitrogen production of 300,000 to 400,000 tons by 1965. Present production is 135,000 tons N.
- Phosphate production of about 200,000 tons P_2O_5 in 1965. Output in 1959 totaled some 131,000 tons.
- Mixed fertilizer output will increase by 10-12 percent to 50,000 to 60,000 tons by 1965.

Superphosphate works are being built in Bratislavia and Lovosice. In Sala is a plant which will become the largest nitrogen plant in the country, along pro-

—*Continued on page 27*

Allied Buys 61 Acres For Future Expansion

Allied Chemical Corporation has acquired a sixty-one-acre parcel of land adjacent to the East St. Louis, Ill., plant of its General Chemical Division. The acreage will be used for future expansion, but the company has no immediate plans.

A new phosphoric acid unit, with a projected capacity of 50,000 tons a year of wet-process acid, is currently under construction at the East St. Louis works. Its on-stream target is early 1961.

CSC Good Customer For Own Natural Gas

Much of Commercial Solvents Corporation's raw materials requirements for natural gas are now coming from the company's own gas wells. Furthermore, the company has big plans for 1961: a major expansion of the drilling and extracting operations of its natural gas subsidiary, Louisiana Gas Production Company.

According to Maynard C. Wheeler, Commercial Solvents president, the expanded operations will provide CSC with a reliable source of natural gas at the lowest possible cost.

When completed, the company will have an investment of approximately $4 million in this phase of its program to become self-reliant in the production of chemicals from natural gas.

The expansion includes the location and drilling of new wells, the construction of gas gathering facilities and the laying of an additional pipeline from the Monroe

—*Continued on page 38*

Synthetic Camphor Cut 5 Cents by Clintbrook

Prices for USP synthetic camphor, in powder form, have been reduced 5 cents a pound across the board by Clintbrook Chemical Company, a division of Chas. L. Huisking & Co., New York, the sole US producer.

Under Clintbrook's new schedule, prices range from 52 cents a pound for ton lots to 54 cents a pound for less than 1,000 pounds.

Also reduced, technical material is now quoted at 45 cents a pound, any quantity—3 cents below the former price.

Dow Tells of Changes In '61 Antifreeze Prices

Dow Chemical Company, Midland Mich., has announced 1961 prices for its private label and bulk ethylene glycol base antifreeze.

The price schedule, applicable to sales after January 1, reflects a change in the margin between bulk and package prices which Dow describes as "realistic for both us and our customers." Several increases in the costs of packaging and shipping have been experienced by packagers in the past few years.

The 1961 antifreeze prices announced by Dow for private label ethylene glycol base antifreeze are: $1.36½ in gallon cans and $1.43½ per gallon in quart cans. Price per gallon in fifty-five-gallon drums will be $1.28. The bulk price in tankcars, tank transports, barges or tankcars is $1.05. All prices are f.o.b. shipping point, with freight pre-paid to continental US destinations, except Alaska.

Tags and protection charts are included at no extra charge. Dow is not offering allowances for promotion or distribution.

The Week's Price Changes

Citronella Oil, Corn Oil, Linseed Meal, Tall Oil Advanced. Castor Oil, Glycerine, Oiticica Oil, Peanut Oil Reduced.

Prices Advanced

Citronella oil, Java-type, 7c. per lb. (p. 36).
Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb. (p. 44).
Linseed meal, old proc., $1 per ton (p. 44).
Tall oil, crude, ½c. per lb. (p. 44).

Prices Reduced

Camphor, USP, syn., powd., 5c. per lb. (p. 32).
Castor oil, Braz., ¼c. per lb. (p. 44).
Glycerine, nat., refd., 2c. per lb. (p. 29).
Syn., ¼c. per lb. (p. 29).
Trichloroethylene, t.c., dlvd., 1½c. per lb. (p. 20).
Oiticica oil, ½c. per lb. (p. 44).
Peanut oil, crude, ½c. per lb. (p. 44).
Refd., ½c. per lb. (p. 44).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:

(100=1949 average)

Dec. 30, 1960	Dec. 23, 1960	Jan. 1, 1960
108.50	108.80	111.70

Polyethers: Good to Sit On

Polyethers may revolutionize the furniture business. That is the opinion of chemical experts who have been watching the increased use of polyurethane foam cushioning in the manufacture of modernistic furniture. Union Carbide Chemicals Company, New York-based division of Union Carbide Corporation, as one of the major suppliers of polyurethanes in the country, is more than delighted with the developments. For the chemical company has spent much time with General Tire & Rubber Company in developing various polyether formulations for use in making various parts of the finished furniture.

General Tire is a pioneer in the urethane foam cushioning field and has, in turn, worked hand-in-glove with Karpen Furniture, a division of Schnadig Corporation, Chicago, to develop the business of "blowing" furniture into existence.

For the first time, the unique "blowing" method permits the fabrication by molding all-foam chairs on a mass basis.

The rigid metal frame is so positioned in a mold cavity that a substantial amount of cushioning material surrounds the frame to provide a completely new and comfortable seating sensation. The frame within the chair is completely hidden and indestructible.

The upholstery fabric covering the chair comes in for a longer life, because the soft, resilient foundation minimizes abrasion at points of greatest wear.

IN SALES POSITION: John N. Moore, appointed manager of distributor sales for the eastern chemical division of Hooker Chemical Corporation, New York.

Armour Inks Contracts For $60 Million Expansion

Armour Agricultural Chemical Company has just signed nine contracts covering construction and services in its $60 million expansion program.

The construction contracts include a nitrogen plant in Colbert County near Cherokee, Ala., and a phosphate plant in Polk County, Fla.

When completed in 1962, these units will approximately triple Armour's present production of nitrogen and concentrated phosphate plant food material.

Contract for the nitrogen plant was awarded to M. W. Kellogg Company, New York. It calls for a 360-ton-a-day ammonia plant, a fifty-ton-a-day urea unit and offsite facilities.

Federal Chemical Votes Merger With Nat'l Distillers

Stockholders of Federal Chemical Company, Louisville, Ky., have voted nearly 97 percent of the outstanding stock in favor of a merger with National Distillers & Chemical Corporation, New York.

Of the 20,000 outstanding Federal common shares, over 96 percent were voted in favor of the merger; 97 percent of the 21,494 outstanding preferred shares also favored the merger.

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IN MANUFACTURING POST: John F. Kilcullen, named vice-president of manufacturing for Nuodex Products Division of Heyden Newport Chemical Corporation, New York.

Chemical Men Listen For the Landis Tune

If the Landis blueprint for reorganizing the federal agencies calls for keeping those agencies in closer tune with White House policies, then let's wait and see what sort of tune the White House is going to call.

Such is the reaction of chemical makers. The blueprint, arising out of a study undertaken at President-elect Kennedy's request by James M. Landis, former dean of Havard Law School, calls for a number of organizational changes.

(At week's end the President-elect named Mr. Landis to the White House staff, and charged him with drawing up formal proposals for reform of government agencies.)

What would the changes mean to chemical makers? Inquiries in the trade brought out the view that the recommendations could mean much or little, depending on what concrete reforms would follow when and if the White House tightens its reins over the agencies.

Closer coordination between agencies and more efficient functioning—goals sought by industry—would be heartily welcomed. Whether this can be accomplished by more centralization, however, is a moot point, prompting an attitude of "wait and see."

In short, industry people want to see the outlines of concrete reforms carrying the specific endorsement of the new President before undertaking any letter-writing campaigns to their congressmen.

These are the major changes called for in the Landis report:

- Creation of a new office in the White House to oversee agency activities.
- Selection of all agency chairmen by the President.
- Coordination of federal policies on transportation by another new White

—Continued on page 27

Valchem in Polyesters, Slates Langley, S. C., Plant

Valchem, the chemical division of United Merchants & Manufacturers, Inc., New York, will enter the polyester resin industry in 1961. Construction of a plant is reported under way at Langley, S. C., with initial production scheduled for late spring.

Ultimate design capacity of the new facility is expandable to 12 million pounds per year of unsaturated resins, Valchem says. Start-up operations will be at an annual potential of 3 million pounds.

Primary markets will be in the Southeastern states from Virginia to Florida.

Polyacetone Resin: Are Reds On to a Chemical End-Product With Commercial Possibilities?

Is polyacetone resin a possibility in the not-too-distant future? It's already been done in the laboratory. An attempt to polymerize acetone by virtue of its oxygen-carbon double bond has been made in the Soviet Union, at Moscow University. Academician V. A. Kargin, director of the project, used the method of combined condensation of the molecular beams of monomer and catalyst (in this case vaporized metallic magnesium) on a strongly-cooled surface. As reported in the *Current Review of the Soviet Technical Press*—a publication of Business & Defense Services Adminstration—the polymer obtained is a white solid, soluble in acetone.

Acetone producers here are of mixed opinion as to the importance of the development. It's generally felt that it's too early to judge the impact a polyacetone resin might have. What are its properties? is a common question.

Right now, the Russians are apparently more interested in stabilization of the end-product than in attempting to determine its properties.

The Crux of the Matter

The crux of the matter: The polyacetone derived is unstable at room temperature and liquefies rapidly. The most stable specimens have a life of ten to twelve hours in the absence of oxygen and moisture.

When the researchers added traces of vinyl acetate, life of the polyacetone was increased to some extent.

While the material has not as yet been stabilized, the academicians infer from what has already been done that stabilization could be achieved by blocking the active ends of growing polymer chains.

Further, they conclude that this indicates that substances which do not polymerize under usual conditions might do so if a preliminary regular arrangement of molecules of a monomer were achieved—for instance, by a solidification crystallization, as in the case of polyacetone.

Industry observers here point out that should such a resin development come to fruition, it wouldn't be too far removed from the "Delrin"-type of story.

In "Delrin's" case, E. I. duPont de Nemours & Co. spent some $42 million developing a polyformaldehyde resin. Formaldehyde, just as acetone, doesn't lend itself too easily to polymerization. Reason: hydrolytic attack, which disintegrates the polymer.

This evidently is what the Russians have run into with their polyacetone re-

—Continued on page 47

British Chemical Prices Continue to Slide Down

Chemical prices in Britain are coming down. The latest to post reductions are Imperial Chemical Industries, Ltd., and Shell Chemical Company, Ltd., which are now quoting standard-grade propylene glycol at $448 a ton in bulk. This is some $14 a ton below the previous listing.

The propylene glycol price cut is one of many that have been effected by UK chemical makers during the past year. Some of the others: acetic acid, epoxy resins, ethylene and propylene oxide, polystyrene and polyethylene.

Propylene glycol consumption has expanded rapidly in Britain due to the development of polyester resins, largely used in conjunction with glass fibers in making plastic products.

Shell Chemical, a subsidiary of the huge oil Royal Dutch/Shell empire, and ICI are the only British producers. ICI reports it will introduce a special pharmaceutical grade of propylene glycol, following Shell's lead, and this material will be priced $28 a ton higher than the standard product.

OPERATIONS CHIEF: William Block, appointed vice-president and manager of Blockson operations in the chemicals division of Olin Mathieson Chemical Corporation, at Joliet, Ill.

Petroleum Specialties: Witco Grows Stronger

Witco Chemical Company has acquired Continental Oil Company's petroleum specialties plant at Gretna, La. This move, capping a year of vigorous expansion, strengthens Witco's recently-acquired stake in petrolatum and mineral oils.

Witco moved into this business last August through purchase of Sonneborn Chemical & Refining Corporation. This gave Witco three petroleum specialties plants—at Petrolia and Franklin, Pa., and Belleville, N. J.—plus Sonneborn's marketing organization and executive staff.

Since the plant purchase from Conoco involves the plant and nothing more, it's a safe bet that the facility will be made part of the Sonneborn operation. Sonneborn's place in the Witco organization is that of an independently operated, wholly-owned subsidiary.

Other highlights of Witco's 1960 expansion drive were:

- Acquisition of two tar distilling companies as sources of naphthalene for its

—Continued on page 26

Mary Chess Purchases Parfums Lucien LeLong

Mary Chess, Inc., New York, has bought the world-wide rights of Parfums Lucien LeLong, Inc.

Parfums Lucien LeLong, one of the largest and most famous French fragrance houses since its founding in 1924, has branches in Paris, London and Montreal. The new Lucien LeLong Corporation will be operated as a wholly-owned subsidiary of Mary Chess.

Southern Nitrogen Looks to a Future Full of Ammonia

Whatever the anhydrous ammonia outlook may be in the rest of the country, Southern Nitrogen Company sees tight supplies ahead for its own marketing area—Georgia, Florida and the Carolinas.

John R. Riley, president of the six-year old company, thinks the current year will be a sell-out year, bringing further price increases and a more comfortable profit margin for producers in the area.

In a talk before the New York Society of Security Analysts last week, Mr. Riley predicted that the company's sales would reach $12.5 million in 1961, up 10 percent over an estimated $11.5 million in 1960. This sales outlook, he noted, is based on current price schedules.

Expansions Not Adequate

Pointing to the company's current expansion projects, Mr. Riley said that these would not be sufficient to keep up with the anticipated increase in demand.

Although the fertilizer market will continue to be Southern Nitrogen's prime business, the company is actively looking into other products that can be extracted from natural gas, including methyl alcohol and formaldehyde.

Replying to questions, the speaker discounted potential threats to the anhydrous ammonia business. He said:

- An atomic process for fixation of nitrogen cannot compete with the conventional method. It's easy enough to combine nitrogen with oxygen, but recovery costs for the nitrogen are high, and the nitrogen still must be joined to ammonia.
- Toward cooperatives, the company's attitude is: "After you feed, we feed." The market is expanding faster than are the cooperatives.

The company's urea expansion at its major plant in Savannah, Ga., is scheduled for completion this month. It will raise overall capacity from 10,000 to 17,000 tons a year. As a part of this unit, the company will start production of commercial liquid carbon dioxide for sale in industrial markets.

Slated to come on stream late in the year are a 33,000-tons-a-year nitric acid unit and a 40,000-ton ammonium nitrate solution concentrating facility.

With completion of these facilities, Mr. Riley pointed out, Southern Nitrogen will be able to process 30,000 tons a year of additional anhydrous ammonia.

Chlorine Producers Hit In New York Price Rule

Nine chemical producers have consented to stop fixing prices on liquid chlorine delivered to New York State and municipalities in the state allegedly in violation of the Donnelly act, New York's antitrust law. The chlorine is used for water and sewage treatment.

Attorney General Louis J. Lefkowitz has charged that the price of chlorine had been maintained by an illegal price fixing agreement by the following companies:

Allied Chemical Corporation; Hooker Chemical Corporation; Jones Chemicals, Inc.; Monarch Chemicals, Inc.; Eastern Chemicals, Inc.; Collier Chemicals, Inc.; S. H. Ireland Chemical Company.; Stedford Chemical Corporation, and Slack Chemical Company.

Velsicol Unit Sets Up An Affiliate in Mexico

Velsicol International Corporation, CA, headquartered in Nassau, Bahamas, has gone into Mexico to set up a subsidiary, which will be known as Velsicol Internacional de Mexico, SA de CV.

The newly-organized unit will warehouse and sell products made in the United States by the parent organization, Velsicol Chemical Corporation, Chicago. Richard Desouches has been appointed general manager and Carlos Castro has been made manager of the office in Mexico City.

Dihydrocodeinone Drugs: First Narcotics Casualties

Drug preparations containing dihydrocodeinone in any amounts are the first casualties of the new tighter controls being exercised over narcotic preparations by the government. This is in line with the provisions of the Karsten bill enacted into law last year.

Notice has gone out to manufacturers, wholesalers and others concerned from the Bureau of Narcotics that as of January 1 these preparations are no longer classed as exempt preparations and automatically became taxable products, Class B, after January 1.

The drug dihydrocodeinone, to which the order relates, is not to be confused with dihydrocodeine, certain preparations of which may still be sold as "exempts" under the new law.

Dihydrocodeine, otherwise known as hydrocodone, has been distributed under the trade names "Dicodid," "Hycodan," "Mercodinone," etc. Preparations containing any of these are no longer exempt.

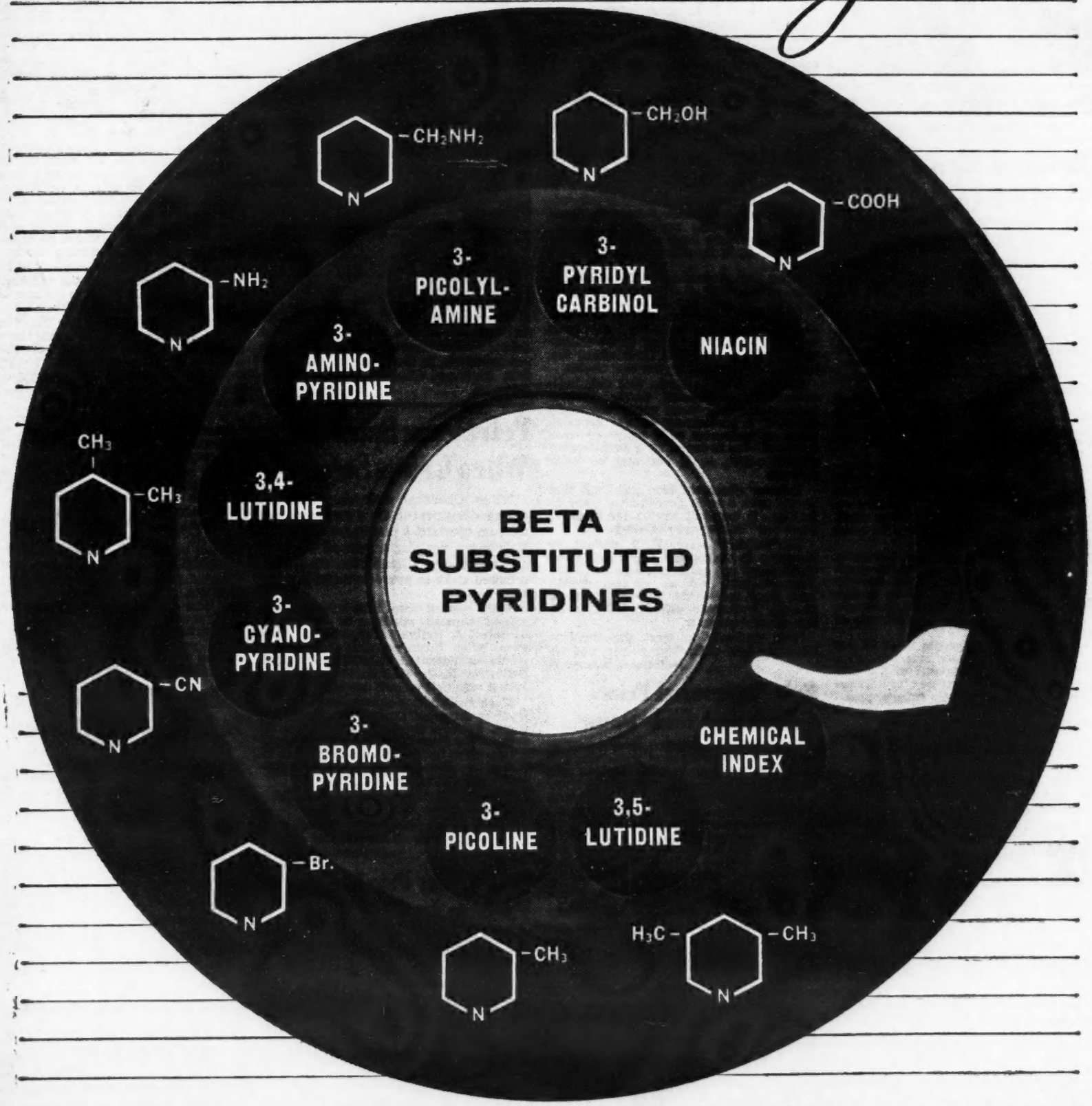
Dihydrocodeine, otherwise known as drocode, and sold under the names "Didrate," "Rapacodin," "Paracodin," "Parzone," etc., is an entirely different drug.

The hydrocodone products may only be manufactured and sold now with appropriate tax strip stamps on the containers, and all sales to wholesalers for resale or to pharmacists or practitioners for dispensing must be made pursuant to official order forms.

Stocks of such preparations in the hands of manufacturers, wholesale drug houses or retail pharmacies must all be labeled before March 1, 1961, with the

—Continued on page 34

call Reilly



REILLY TAR & CHEMICAL CORPORATION

MERCHANTS BANK BUILDING, INDIANAPOLIS 4, INDIANA

SALES OFFICES IN PRINCIPAL CITIES

A DIVISION IS FORMED: Columbia-Southern Chemical Corporation, formerly a wholly-owned subsidiary, has become a division of Pittsburgh Plate Glass Company, Pittsburgh, Pa., to operate under the name, Pittsburgh Plate Glass Company, chemical division. Joseph A. Neubauer (left) has become vice-president and general manager of the division and Chris F. Bingham (right) has been made vice-president in charge of chemical sales.

Sulfur Had Good Year Last Year; Use and Exports Broke Records

Last year was a good year for sulfur. Domestic consumption and exports were both at record levels and there were also important additions to the industry's productive capacity. Thus the picture for last year has been painted by Charles A. Wight, president of Freeport Sulphur Company, New York, in an annual review of the industry. Demand increased for the second consecutive year as a result of the high rate of industrial production at home and abroad.

Sulfur, long regarded as a barometer of business activity, finds its place into many key industries: fertilizers, chemicals, paper, steel, rubber and textiles.

Consumption Exceeded Previous High

Preliminary data indicates that total domestic consumption of sulfur in all forms was in excess of the previous high of 5,950,000 long tons used in 1959. Consumption in 1959 was 11 percent over 1958.

The high level of business activity elsewhere in the Free World led to greater than ever exports of sulfur from the United States, Mr. Wight says.

Such shipments were estimated to total 1.7 million tons, up 100,000 tons over 1959. The new high was achieved despite an increase of 600,000 tons in the shipments of other producers supplying the overseas markets.

Domestic sulfur production was up about 7 percent, Mr. Wight reports. Output from all sources amounted to an estimated 6.6 million tons, compared with 6,165,000 tons in 1959.

Of the total, an estimated 4,950,000 tons

—*Continued on page 46*

Ethylene Facility to Have Delaware River Pipeline

A $2 million pipeline project across the Delaware River has been slated by SunOlin Chemical Company in connection with the company's $20 million ethylene-ethylene oxide plant now under construction at Claymont, Del.

The river will be crossed by ten eight-inch pipelines running from the Claymont plant to a point just north of Penns Grove, N. J. Ethylene and other chemical liquids and gases will be carried in the pipeline network.

Carbide Would Assault Beer's Watery Integrity

If it isn't jellied martinis, it's dehydrated beer. The chemical industry, not content merely with making gin and vermouth quiver, now wants to launch a Schlitzkrieg on the brewing industry by selling dewatered suds.

Union Carbide Corporation has advised Internal Revenue Service that it has developed a process for dehydrating beer which would permit concentrates similar in concept to frozen orange juice to be sold over the counter at liquor and other retail outlets.

Users would convert the product into beer by adding water and carbon dioxide. Since Carbide's process would require changes in alcohol tax rules, IRS will hold a hearing March 21.

USSR Phenol Unit Rising

The Soviet Union is building a cumene-type phenol unit at its Novokuybyshevsk chemical plant. Business & Defense Services Administration in its *Current Review of the Soviet Technical Press* reports that the first section of the plant, now in operation, makes synthetic ethyl alcohol. The second section, under construction, is slated to make phenol, acetone and alpha-methylstyrene.

OPD Reports From Europe

Britain's Ministry of Health, UK Pharmaceutical Producers Agree on New Pricing Plan

Britain's Ministry of Health, which hopes to cut the government's drug bill, and the UK pharmaceutical industry have finally agreed on a new price-fixing scheme for drugs bought by the National Health Service. The ministry refuses to estimate what savings it hopes to gain from the modified voluntary scheme with drug makers. The new agreement runs from January 1, 1961, to June 30, 1964, and represents an extension of a price regulation method first put into operation in 1957.

This earlier arrangement was to have expired last June, but was continued when the industry and the ministry had prolonged difficulty in negotiating their differences on what changes should be made.

Nub of the Pricing Scheme

Basic frame of the scheme remains the same: After a three-year period of free pricing following introduction of a new drug, the price will be fixed by the export price where exports are substantial; or prices will be determined by reference to the price of an unbranded equivalent preparation where such exists; or by a special formula.

Among the changes is one which raises the definition of "substantial" exports to 25 percent of total sales from 20 percent in the past. This is conceived to be one of the ministry's concessions to the industry in return for changes in its favor.

Most other changes, apparently, strengthen the National Health Service's position. The most important difference is one giving the ministry power to initiate direct price negotiations on any widely-used drugs which are patent-protected and not priced competitively in export. Under the old scheme, direct price negotiation was allowed only at the manufacturer's option.

In discussing the new scheme in Parliament, the Minister of Health declared that negotiations on the prices of a few widely-used drugs will start immediately. Other drugs will be considered for negotiation from time to time, he added.

No specific identification of the drugs to be taken up first by the ministry with the manufacturers has been made. This change, though, is believed to be the most important one from the ministry's point

—*Continued on page 42*

ADVANCES: Francis J. Prescott, named manager of market development for the chemical group in the research and commercial development department of General Aniline & Film Corporation, New York. He had been supervisor of sales development.

TVA Is Ready to Build Big Phosphorus Furnace

Tennessee Valley Authority is planning a new and larger phosphorus furnace at Muscle Shoals, Ala., for the production of phosphatic fertilizers.

In its annual report just sent to congress, TVA gives no figures on the size of the plant, but says that its aim is to "restore to TVA the phosphorus capacity it requires to meet national defense emergencies as well as fertilizer program needs."

Design work has been started on the furnace which will be "considerably larger than any of the present furnaces," and will replace two worn out and obsolete units, it is stated.

GSA Buys Up DDT And Pays 21.81 Cents

General Services Administration last week purchased 26 million pounds of DDT, 75 percent wettable grade, at an average price of 21.81 cents a pound—for a total cost of $5,597,725. The insecticide is for use in the anti-malarial program of the World Health Organization.

Contracts were awarded to four suppliers for the entire amount, from the bid opening held by GSA December 13. Their prices ranged from a low of 20.99 cents to a high of 22.23 cents. GSA has the option of increasing the amount to be purchased at these prices by 15 percent

—*Continued on page 47*

Trichloroethylene Cut

E. I. duPont de Nemours & Co. has reduced prices of trichloroethylene solvent by 8 to 12 percent. New delivered prices are 12½ cents a pound for truckloads and carloads, 11¾ cents for tankwagons, 11¼ cents for tankcars, and 14 cents for truckload quantities delivered east of the Rockies.

Association Meetings

American Chemical Society, national meeting, St. Louis, Mo., March 21-30.

American Institute of Chemical Engineeds, annual meeting and petrochemical exposition, Municipal Auditorium, New Orleans, La., February 25-March 1.

American Pharmaceutical Association, annual convention, Chicago, April 23-28.

American Society for Testing Materials, committee week, Netherland Hilton hotel, Cincinnati, Ohio, January 30-February 3.

Association of American Soap & Glycerine Producers, annual meeting, Waldorf-Astoria hotel, New York, January 25-27.

Chemical Buyers Group of the National Association of Purchasing Agents, midwinter conference, Commodore hotel, New York, February 2.

Commercial Chemical Development Association, annual meeting, Roosevelt hotel, New York, March 28-29; annual outing, Bedford Springs hotel, Bedford Springs, Pa., May 24-25.

Drug, Chemical & Allied Trades Association, annual banquet, Waldorf-Astoria hotel, New York, March 2.

Eastern Pest Control Operators' Conference, University of Massachusetts, Amherst, Mass., January 25-27.

Electrochemical Society, Claypool hotel, Indianapolis, Ind., April 30-May 4.

Essential Oil Association, annual meeting, Savoy-Hilton hotel, New York, January 6.

Flavoring Extract Manufacturers Association, annual meeting, Savoy-Hilton hotel, New York, May 14-17.

Northeastern Weed Control Conference, annual meeting, New Yorker hotel, New York, January 4-6.

Pharmaceutical Manufacturers Association, central regional meeting, Edgewater Beach hotel, Chicago, February 13-15; western regional meeting, Ambassador hotel, Los Angeles, February 20-21; annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., April 30-May 3.

Plastics Exposition, sponsored by the Society of the Plastics Industry, Coliseum, New York, June 5-9.

Purdue Pest Control Operators' Conference, Purdue University, Lafayette, Ind., January 23-27.

Society of Plastics Engineers, annual technical conference, Shoreham and Park-Sheraton hotels, Washington, D. C., January 24-27.

Society of the Plastics Industry, reinforced plastics conference, Edgewater Beach hotel, Chicago, February 7-9; western section conference, del Coronado hotel, Coronado, Calif., April 20-21; national conference, Commodore hotel, New York, June 5-9.

Southern Pest Control Operators' Conference, Heidelberg hotel, Jackson, Miss., January 16-17.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Roosevelt hotel, New York, January 10.

Technical Association of the Pulp & Paper Industry, annual meeting, Commodore hotel, New York, February 20-23.

Toilet Goods Association, annual convention, Waldorf-Astoria hotel, New York, May 9-11.

CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, December 30 on large lots f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Abies siberica oil, cns. ..... lb. 1.90 - 2.40
Acacia (see Arabic gum).
Acetaldehyde 99%, dms., c.l., works. lb. .12 - —
dms., l.c.l., works ..... lb. .13½- —
tanks, works ..... lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt alld lb. .32½- —
bbls., bgs., ton lots, frt. alld. lb. .33½- —
bbls., bgs., smaller tots, frt. alld lb. .36½- —
USP bbls. 225-lb dms. any quantity lb. .90 - —
100-lb. dms., any quantity lb. .92 - —
Acetic acid, comi., or redist., 28%, bbls 100 lbs 4.80 - —
56%, bbls. ..... 100 lbs 8.25 - —
70%, bbls. ..... 100 lbs 9.95 - —
80%, bbls. ..... 100 lbs.10 45 —
Acetic acid, glacial, syn., CP dms. dlvd 100 lbs.15.00 -20.25
tech., dms., c.l., dlvd 100 lbs.13.75 —
dms., l.c.l., dlvd ..... 100 lbs.15.25 —
tanks, dlvd. ..... 100 lbs.10.00 —
USP, dms., dlvd ..... 100 lbs.13.00 -18.25
Acetic anhydride, aluminum ret. dms., c.l., dlvd. E lb. .16½- —
aluminum ret. dms., t.c.l., dlvd E. lb. .18 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
fib dms., t.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd lb. 1.35 - —
fib dms., t.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
fib dms., t.c.l, dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .10½- —
dms., t.c.l., dlvd ..... lb .12 - —
tanks, dlvd. ..... lb. .08 - —
Acetonitrile, dms., c.l., t.l., dlvd lb .35 - —
dms. t.c.l. dlvd lb .36½- .37
tanks. dlvd. lb .32 - —
Acetophenetidin, USP, 200-lb. dms., 1,000 lbs., frt. alld lb. 1.20 - —
100-lb dms., 1,000 lbs., frt. alld lb. 1.22 - —
Acetophenone, cns., dms ..... lb 42 1.30
Tech., dms., c.l., works ..... lb. .47 —
dms., t.c.l., works ..... lb. .47¾- —
tanks, works ..... lb. .45 - —
N-Acetyl-p-aminophenol, dms., t.l. (min 23,000 lbs.), frt. adjusted lb. 1.30 - —
dms., 1,000-lb. lots, same basis lb. 1.40 - 1.45
dms., 100-lb. lots, same basis ... lb. 1.54 - 1.57
Acetylene black, imp., bgs., c.l., cs., l.c.l., ex whse ..... lb. .20 —
duty and freight extra lb. .25½- .31
Acetylene tetrabromide, 16-dm. lots or more, f.o.b. works lb. .53 - —
Acetylsalicylic acid, USP, cryst. (20, 40 mesh), powd. (80 mesh), 250-lb. dms., c.l., pt. of shipt lb. .56¼- —
USP 10% starch granulation, 12-50 mesh, white, 250-lb. dms., c.l., same basis lb. .56¼ —
(Pink and green granulations 5c. per lb. higher.)
Freight equald, shipt. identical quantity over standard routes, from N.Y., Phila., Midland, Mich., Chicago and St. Louis.
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .35½- —
non-ret. dms., t.c.l., frt. alld. E. of Denver lb. .36½- —
tanks, frt. alld. E. of Denver. lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39½- —
non-ret. dms., t.c.l., frt. alld. E. of Denver lb. .40½- —
tanks, frt. alld. E. of Denver lb. .37 - —

ACIDS

Acid quotations are listed individually. For example, prices on Acid, cresylic, may be found in the C's under Cresylic acid.

Aconite root, bls. lb. .50 .55
Acrolein, tech., dms., c.l., works lb. .36 —
dms., t.c.l., works ..... lb. .36¾ - —
tanks, works ..... lb. .31 - —
Acrylamide, dms., t.l., f.o.b. works. lb. .58 - —
dms., t.t.l., same basis lb. .60 - —
Acrylic acid, glacial, dms., c.l., t.l., dlvd lb. .42½- —
dms., t.c.l., t.t.l., dlvd ..... lb. .43½- —
tanks, dlvd. ..... lb. .40 - —
tech., esterification, tanks, frt. allowed lb. .38 - —
tech., polymerization, tanks, same basis lb. .38 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .26 - —
dms., t.c.l., t.t.l., frt. alld ..... lb. .27 - —
tanks, frt. equald ..... lb. .23 - —

Abies Siberica Oil—Ammonium Bicarbonate

Adeps lanae (see lanolin).
Adipic acid, bgs., c.l., dlvd..... lb. .32¼- —
bgs., l.c.l., dlvd. ..... lb. .35 - —
Agar, USP, Kobe No. 1, strip, bls. lb. 2.75 - 3.00
powd., 30 mesh., fib. dms lb 2.40 - —
dl-Alanine, dms. 100-lbs or more, f.o.b works lb. 5.25 - —
dms., 1-99 lbs., same basis lb.10.00 - —
Aldol, 95%, dms., t.c.l., works lb. .28 - —
Aldrin, tech., fib. dms. c.l., t.l. dlvd lb. .99 - —
fib. dms., t.c.l., dlvd lb. 1.04 - —

ALCOHOLS

Alcohol quotations are listed individually. For example, prices on Alcohol, furfuryl, may be found in the F's under Furfuryl alcohol.

Aletris root, bgs lb. 1.50 1.75
Algin (see Sodium alginate)
Alizarin (see 1,2-Dihydroxy anthraquinone).
Alkali blue dry, 250-lb. bbls., dlvd. E. of Rockies lb. 2.45 - —
Alkali blue prices 1c higher W of Rockies

Allethrin, 90%, dms., frt. alld lb.28.80 -28.90
Soln., 20%, dms., 200-2,000 lb. lots, frt alld lb. 6.50 - 6.55
2½% dms. frt. alld. lb. .95 - 1.10
Allspice oil (see Pimento oil).
Allyl alcohol, dms., c.l. dlvd..... lb. .32½- —
dms., t.c.l., dlvd. ..... lb. .34 - —
tanks, dlvd. ..... lb. .30 - —
Allyl bromide 55-lb cbys 5,005 lbs or more, works lb. 1.50 - —
55-lb. cbys., 1,045 to 4,. lbs. works lb. 1.55 - —
55-lb. cbys., 55 to 990 lbs works lb. 1.60 - —
Allyl chloride, dms., c.l., dlvd lb. .17½- —
dms., t.c.l., dlvd ..... lb. .19 - —
tanks, dlvd ..... lb. .15 - —
Allyl isothiocyanate (see Mustard Oil, syn.).
Almond oil, artif., bitter (see Benzaldehyde)
Almond oil, nat., bitter, f.p.a., bots. lb 2.75 3.45
NF, bots. ..... lb. 3.00 3.30
sweet, USP, cns., dms. ..... lb 70 1.30
Aloe, Cape, cs. ..... lb. 35 - .40
powd. cs ..... lb 60 .65
Curacao, kgs. ..... lb. .75 - —
powd., kgs. ..... lb. .85 - —

Abbreviations

Used in OPD Market Quotations

alld.	allowed
amorph.	amorphous
AMP	American melting point
anhyd.	anhydrous
AOAC	Association of Official Agricultural Chemists
a.p.a.	available phosphoric acid
approx.	approximately
artif.	artificial
ASTM	American Society for Testing Materials
Atl.	Atlantic
Be.	Baume
bbls.	barrels
bgs.	bags
bls.	bales
bots.	bottles
b.p.	boiling point
b.p.l.	bone phosphate of lime
b.r.	boiling range
bxs.	boxes
C.	centigrade
cbys.	carboys
CD	completely denatured
c.i.f.	cost, insurance, freight
cks.	casks
c.l.	carlots
cns.	cans
coml.	commercial
conc.	concentrated
CP	chemically pure
cps.	centipoises
cryst.	crystalline
cs	cases
ctns.	cartons
cyls.	cylinders
d-	dextro
dbl.	double
denat.	denatured
dest-dist.	destructively—distilled
dl-	dextro-laevo
dist.	distilled
distr.	distributor
djns.	demijohns
dlvd.	delivered
dms.	drums
dom.	domestic
E.	east
e.p.	end point
equald.	equalized
exp.	expressed
Ext.	external
F.	fahrenheit
ferment.	fermentation
f.f.a.	free fatty acid
f.f.c.	free from chlorine
fib.	fiber
f.o.b.	free on board
f.p.a.	free of prussic acid
frt.	freight
gal.	gallon
gran.	granular
grd.	ground
i.&a.	iron and aluminum
i.b.p.	initial boiling point
imp.	imported
incl.	included
indust.	industrial
kgs.	kegs
l-	laevo
lacq.	lacquer
lb.	pound
l.c.l.	less carlots
l.t.l.	less truckload
liq.	liquid
mfrs.	manufacturers
m-	meta
m.a.p.	mixed aniline point
min.	minimum
m.p.	melting point
N-	nitrogen
n-	normal
nat.	natural
neut	neutral
NF	National Formulary
NNR	New and Nonofficial Remedies
No.	number
nom.	nominal
o-	ortho
ord.	ordinary
oz.	ounce
p-	para
Pac.	Pacific
pf.	proof
phos.	phosphate
photo.	photographic
pkgs.	packages
powd.	powdered
precip.	precipitated
prod.	producer
pt.	point
pulv.	pulverized
purif.	purified
redist.	redistilled
refd.	refined
refy.	refinery
reg.	regular
resub.	resublimed
ret.	returnable
SD	specially denatured
s.d.	single distilled
S E.	southeast
sec.	secondary
secs.	seconds
s.g.	specific gravity
shipt.	shipment
soln.	solution
s.u.	standard unit
syn.	synthetic
tanks.	railroad tankcars
tech.	technical
tert-	tertiary
t.l.	truckloads
t.w.	tankwagons
USP	U. S. Pharmacopoeia
vis.	viscosity
VM&P	varnish makers & painters
W.	west
whse.	warehouse
w.w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

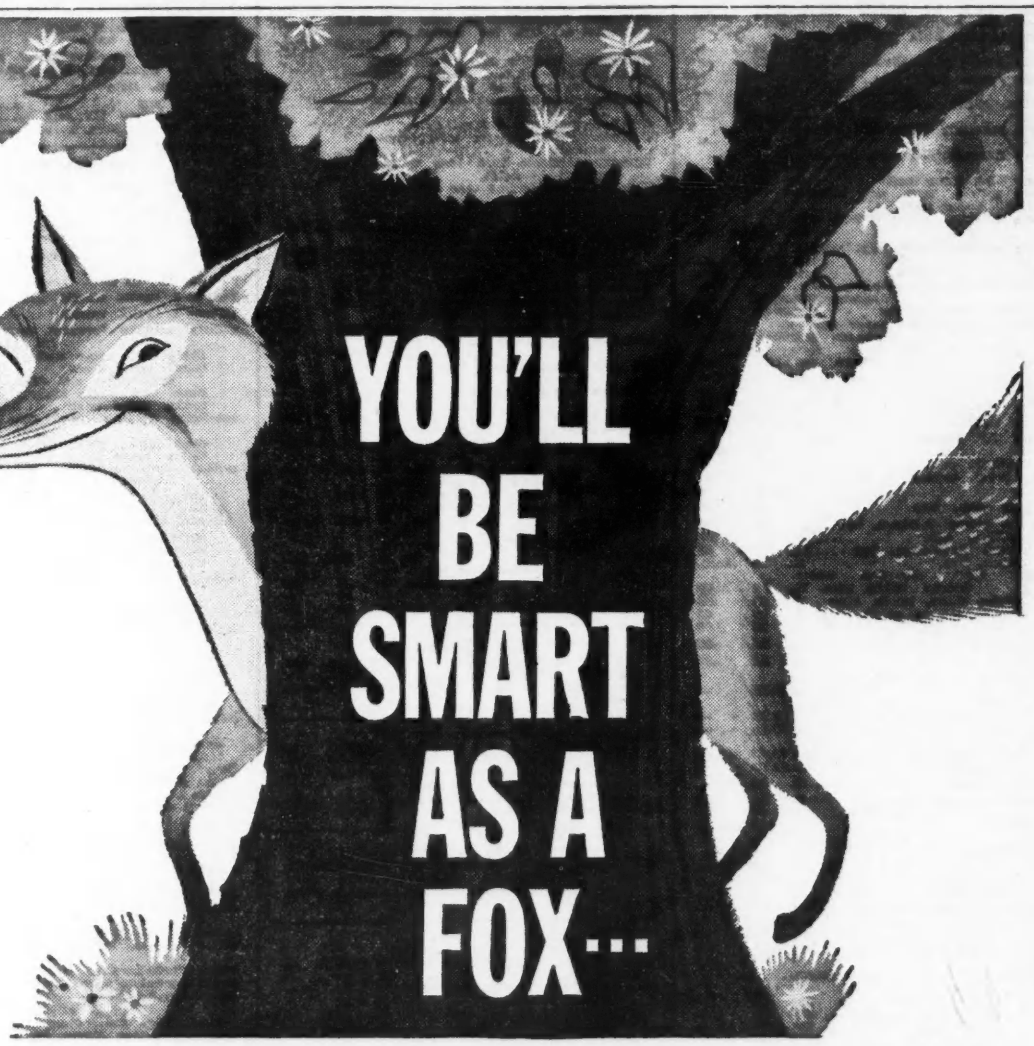
Aloin, USP, bbls., dms., kgs.. lb 3.25 - 3.75
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpinol (see a-Terpinol).
Alphatocopherol (see a-Tocopherol).
Alum ammonium, gran., bgs., works 100 lbs. 4.30 - —
Lump, dms., works ..... 100 lbs 5.05 - —
Powd. dms., works..... 100 lbs. 5.20 - —
USP, burnt., dms ..... lb. .20 - .21
hydrous, dms. ..... lb. .07¾- .08
Alum potassium, gran., bgs., works. 100 lbs. 4.55 - —
Lump, dms., works ..... 100 lbs 5.30 - —
Powd. dms., works..... 100 lbs. 5.45 - —
USP burnt., dms ..... lb. .20 - .21
USP hydrous, dms ..... lb. .07¾- .08
Alum, potash-chrome, dms..... lb. .17 —
Alumina, calcined, bgs., c.l., works. lb. .0535- —
bgs., l.c.l., works ..... lb. .056 - .0635
Aluminum acetate, basic soln., 24%, bbls., l.c.l, works lb. .14 - —
Aluminum chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .16 - —
dms. l.c.l., works lb. 16½- —
cryst., dms., c.l., works 100 lbs.21.00 - —
dms., l.c.l., works 100 lbs.21.50 - —
Soln., 32° cbys., c.l., works lb. 0493- —
cbys., l.c.l., works lb. .0570- .1093
tanks, works ..... 100 lbs. 3.95 - —
NF, gran., dms., works lb. .31 - .33
Aluminum fluoride, tech., anhyd., bgs., c.l., works lb. .16¼- —
bgs., l.c.l., works ..... lb. .17¼- .19¼
bulk, c.l., basis 80% ..... lb. .14½- —
Aluminum fluoride in fib. dms. 0.35c per lb. higher
Aluminum formate, basic soln., containers extra, c.l., works. 100 lbs.11.00 - —
containers extra, l.c.l., works. 100 lbs.11.50 - —
Aluminum hydrate, heavy, bgs., c.l., frt. equald lb. .0370- —
bgs., 20,000-40,000 lb lots same basis lb. .0395- —
bgs., 2,000-20,000 lb. lots same basis lb. .0495- —
bulk, c.l., same basis..... lb. .0330- —
Aluminum hydroxide, dried, USP XV, fib. dms., works lb. .82½- —
fib. dms., contract, works lb. .79½- —
Aluminum hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib dms., works lb. .22 - —
9-9½% Al_2O_3, fib. dms., works. lb. .19 - —
fib. dms., contract, works lb. .18 - —
Aluminum hydroxide, tech., powd., (see Aluminum hydrate).
Aluminum metal, 99½% + 30-lb ingots, 10,000-lb. lots, frt. alld lb. .2810- —
50-lb. pigs, 10,000-lb. lots, frt alld. lb. .28 - —
Aluminum oxide, amorphous (see Alumina, calcined).
Aluminum paste, lining, extra-fine, dms lb. .71 - —
Standard grade, dms ..... lb. .48½- —
Aluminum powder, lining, extra-fine, dms lb. 1.13 - —
Standard grade, dms lb. .83 - —
Aluminum paste and powder prices are f.o.b. shipping point. Add 1c per lb. for 100-lb. dm., 1½c per lb. for 50-lb dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs. 2c for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S., a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or more
Aluminum resinate, precip., 2.1% Al, dms lb. .45 - —
Aluminum stearate, dibasic, ctns., c.l lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Monobasic, ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Tribasic ctns., c.l. ..... lb. .39 - —
ctns., l.c.l. ..... lb. .40 - .44
Aluminum sulfate, coml., grd., bgs. c.l., works, frt. equald ton.41.00 - —
bulk, c.l., same basis ton.40.00 - —
lump, bgs., c.l., same basis ton.44.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.80 - —
bgs., l.c.l., works, frt. equald. 100 lbs. 4.30 - 8.30
USP, gran., 400-lb. dm., works. lb. .30 - —
USP, powd., dms., works..... lb. .27 - —
Aluminum sulfate prices $1 per ton higher in the South.
Aluminum trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots..... oz. 6.50 -10.00
p-Aminoacetanilide, tech., paste, dms., frt. alld lb. 1.57 - —
Aminoacetic acid, NF, bbls., frt. adjusted lb. 1.35 - 1.60
Aminoazotoluene base, bbls., 100% basis lb. 1.15 - 1.18
p-Aminobenzoic acid, tech., dry, dms., works lb. 1.72 —
2-Amino-4-chlorophenol, tech., solid, dms., frt. alld lb. 2.15 - 3.85
p-Aminodiphenylamine, tech., solid, dms., frt. alld lb. 3.00 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
dms., t.c.l., dlvd..... lb. .49 - —
tanks, dlvd. ..... lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
dms., t.c.l., frt. alld..... lb. .45 - —
tanks, frt. alld. ..... lb. .42 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
dms., smaller lots. ..... lbs. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. 1.15 - —
Aminophylline, USP, 100-lb. dm., frt. alld lb. 3.25 - —
p-Aminosalicylic acid, dms., 100 lbs. or more, frt. adjusted lb. 3.40 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. E. of Rockies ton.92.00 - —
refrigeration, tanks, works, frt. equald. E. of Rockies ton.94.50 - —
Aqueous, 29.4%, tanks, works, anhyd. basis, E. of Rockies. ton.95.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal., gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
bgs. l.c.l., same basis 100 lbs. 8.65 -12.65
Ammoniac, sal., white (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms lb. .40 - —
Ammonium benzoate, USP, 100-lb. dms., 1,000-lb. lots, works. lb. 1.90 - —
Ammonium biborate, gran., dms., cl., works ton.325 - —
dms., ton lots, ex whse. 100 lbs.20.40 - —
dms., smaller lots, ex whse. 100 lbs.21.15 - —
Ammonium bicarbonate, dom., dms., c.l., works..100 lbs. 7.00 - —
dms., t.c.l., works.....100 lbs. 9.00 - —

Ammonium bichromate, dms., works lb. .42 - .43
Ammonium bifluoride, dms., dlvd lb. .2145 - .2245
Ammonium bromide, NF, gran., dms., c.l., t.l., frt. equald lb. .44 - —
dms., l.c.l., same basis lb. .46 - —
Ammonium carbonate, USP, lump, dms., c.l lb. .15½ - —
Ammonium chloride, white, tech., fine gran., bgs., c.l., works 100 lbs 6.00 - —
bgs., l.c.l., works 100 lbs. 8.00 - 8.45
USP, gran., 250-lb dm lb. .17¼ - —
Ammonium citrate, dibasic, 250-lb. dm, t.o.b. works lb .77 - —
Ammonium dichromate (see Ammonium bichromate)
Ammonium fluoride (see Ammonium bifluoride)
Ammonium gluconate, tech., 200-lb. dm., f.o.b. works E lb. .45 - —
Ammonium hydroxide (see Ammonia aqeous).
Ammonium iodide, NF, 25-lb. jar, f.o.b works lb 4.26 - —
Ammonium lauryl sulfate, dms., c.l., frt. alld lb. .20½ - —
dms., t.l.l., frt. alld lb .21½ - —
tanks, frt. alld lb. .19½ - —
Ammonium lignin sulfonate, bgs., c.l. works 100 lbs. 3.25 - —
bgs. l.c.l., works 100 lbs. 3.40 - 3.65
Ammonium linoleate, 80%, dms., works lb. .50 - .55
Ammonium molybdate, CP, cryst., 400 lb dms. 15,000-lbs works. lb 1.22 - —
400-lb dms. 2,000-lb contracts, works lb 1.23 - —
400-lb. dms. works lb 1.24 - —
Ammonium nitrate, dom., tertilizer grade 33.5% N bgs. f.o.b works ton.67.00 - —
Ammonium nitrate, dom., with dolomite, 20.5% N, bgs., c.l., Hopewell, Va ton.48.00 - —
Imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point frt. equald to $3 ton base price ton.70.00 - —
Ammonium oxalate, tech., fine gran., 250-lb dm, f.o.b works E lb. 28½ - —
Tech. powd. 200-lb dm., same basis lb 28½ - —
Ammonium pentaborate, gran., bgs., c.l. works ton 193.00 - —
bgs., ton lots, ex whse 100 lbs 14.23 - —
bgs. smaller lots, ex whse 100 lbs. 15.48 - 17.48
Ammonium pentaborate powder $10 per ton higher in bags
Ammonium persulfate, tech., dms., 10-ton lots or more, works lb. .18 - —
dms. smaller lots, works lb. .20 - .23
Ammonium phosphate, comi., bgs., c.l., works, frt equald lb. .09¼ - —
bgs. l.c.l., same basis lb. .10 - —
Dibasic, NF, V, bbls., dms lb. .46 - —
Dibasic, tech., bgs., c.l. works, frt. alld lb. .09¼ - —
Ammonium silicofluoride, ums., works lb. .12¼ - .13¾
Ammonium sulfamate, bgs. c.l., t.l., works lb. .19 - —
bgs. l.c.l., works lb. .20½ - .27
Ammonium sulfate standard granular bulk f.o.b works, base price ton.32.00 - —
Ammonium sulfate, standard, gran., purif., c.l., 100-lb bgs., f.o.b works lb. 08½ - —
Large granular bulk c.l. works ton.35.00 - —
bgs., c.l., works ton 40.00 - —
Tech., bulk, c.l., t.l., works ton 52.00 - —
bgs., c.l., t.l., works ton 56.00 - —
bgs., l.c.l. t.l. works 100 lbs 3.20 - 5.20
Ammonium sulfide, tkg., 40-44%, tanks, frt equald, 100% basis, ton 160.00 - —
Ammonium sulfocyanide, tech (see Ammonium thiocyanate)
Ammonium thiocyanate, tech., cryst., dms. c.l. works lb .20 - —
dms. l.c.l. works lb. .22 - .26
Tech, soln., 50%, tanks, frt. equald., basis ammonium thiocyanate content lb. .17¼ - —
Ammonium thioglycolate, comi., 55-gal. dms., ton lots, 100% basis lb 1.15 - —
d-Amphetamine hydrochloride, mono basic dms lb 17.50 - 23.50
dl-Amphetamine hydrochloride, di basic dms lb 4.50 - 6.00
d-Amphetamine phosphate, 6lb dms., 100-lb lots lb 15.00 - —
dl-Amphetamine phosphate, dms. lb 4.20 - 5.60
d-Amphetamine sulfate, 6lb dms. lb. 15.00 - 17.00
dl-Amphetamine sulfate, 6lb dms., lb 4.20 - 5.60
Amyl acetate, ex fusel oil, tech., dist. from 125° to 150°C., dms. c.l., frt alld E. of Rockies lb .18½ - .19
dms., l.c.l., same basis lb. .20 - .20½
tanks, same basis lb. .16 - .16½
Amyl acetate, ex pentane, reg., dms., c.l., dlvd lb. .19 - —
dms., l.c.l., dlvd lb. .21½ - —
tanks, dlvd. lb. .16½ - —
tech., dms., c.l. dlvd. lb. .17 - —
dms. l.c.l., dlvd lb. .18½ - —
tanks, dlvd. lb. .14½ - —
Amyl acetate, syn., oxo process, dms., c.l., dlvd lb. .19 - —
dms., c.l., dlvd lb. .20½ - —
tanks, dlvd lb. .16½ - —
Amyl alcohol, ex fusel oil (see Fusel oil refd).
Amyl alcohol, ferment, refd., 128° 132°C., dms., l.c.l., dlvd lb. .43½ - —
refd., ACS grade, dms., l.c.l., dlvd lb. .45½ - —
ex pentane, mixed amyls, dms., c.l., frt. alld lb. .19 - —
dms., l.c.l. frt. alld lb. .20½ - —
tanks, frt. alld lb. .16½ - —
Amyl alcohol, primary, dms., c.l., frt. alld lb. .20¼ - —
dms., l.c.l. frt. alld lb. .21¾ - —
tanks, frt. alld lb. .17¾ - —
Sec-synthetic, dms., c.l., works, frt. alld lb. .19 - —
dms., l.c.l., same basis lb. .20½ - —
tanks, same basis lb. .17 - —
Tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
dms., l.c.l., frt. alld E. lb. .18½ - —
tanks, frt. alld E lb. .14½ - —
Amyl alcohol 1-pentanol (syn. normal), dms., c.l., works lb. .41½ - —
dms., l.c.l., works lb. .43 - —
tanks, works lb. .39½ - —
2-pentanol, dms., c.l., works lb. .65 - —
dms., l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Amyl n-butyrate, dms. lb. 1.00 - 1.25
Amyl cinnamic aldehyde, dms lb 1.70 - 2.20
p-tert Amyl phenol, dms., c.l., works, lb. .29 - —
dms., l.c.l., works lb. .28 - —
Amyl salicylate, cns., dms. lb. .71 - —
Amyris oil, dms lb. 1.10 - —
Anethol, tech., dms. lb. .80 - .92
USP, cns., dms. lb. 1.05 - —
Angelica root, bls lb. .80 - 1.00
Angelica root oil, bots lb 120.00 - 140.00
Angelica seed oil, bots lb 120.00 - 130.00
Aniline, dms., c.l., frt. alld lb .20 - —
dms., l.c.l., frt. alld. lb .21 - —
tanks, frt. alld. lb. .18 - —

Aniline oil (see Anilina).
Aniline salt, dms., c.l., t.l., 20,000 lbs. min., frt. alld lb. .33 - —
dms., l.c.l., same basis lb. .35 - —
Anise oil, USP, dms lb 1.75 - 3.00
Anise seed, Mexican, bgs. lb. .24 - —
Spanish, bgs. lb. .24 - —
Anisic aldehyde, dms lb. 1.50 - 2.20
o-Anisidine, dms., c.l., frt. alld. lb. .80 - —
dms., l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —
p-Anisidine, dms., works lb. .97 - —
Anthracene, 90-95%, dms., c.l., t.l. f.o.b., works lb. .42½ - —
dms., l.c.l., minimum shipment 1,000 lbs., same basis lb. .45 - —
Anthranilic acid, 99%, 150-lb. dms., dlvd lb. 1.15 - —
Anthraquinone, 99.5%, bgs., c.l., frt. alld lb. .70 - —
bbls., l.c.l., same basis lb. .73 - —
Electrical grade, bgs., l.c.l., same basis lb 1.10 - —
Antimony butter (see Antimony trichloride).
Antimony metal, bulk, c.l., mines. lb. .29 - —
cs., c.l., mines lb. .29½ - —
Antimony oxide, bgs., c.l., frt. alld. lb. .26½ - —
bgs., l.c.l., frt. alld. lb. .28 - —
Prices of antimony oxide are 2% higher west of the Rockies.
Antimony sulfide, approx. 65%, bgs., 10,000-lb. lots, dlvd lb. .23 - —
bgs., smaller lots, dlvd lb. .24 - .26
Antimony trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
pails, l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., 250-lb., dm., f.o.b. works, E lb. .69½ - —
USP, powd., 250-lb. dm., same basis lb. .74½ - —

Apomorphine hydrochloride, USP, bots., 25-oz. lots oz. 35.60 - —
Apricot kernel oil, USP, dms lb. .55 - .70
Arabic gum, amber sorts, 10 bgs. lb. .21 - .23
USP, powd., bbls lb. .27 - .30
Areca nuts, powd., bbls. lb. .13 - —
Arecoline hydrobromide, NF, bots., tins, 100 oz. or more oz. 4.00 - —
1-Arginine, free base, dms., 10-kilo lots or more kilo. 90.00 - —
1-Arginine glutamate, dms., 10-kilo lots or more kilo. 60.00 - —
1-Arginine monohydrochloride, dms., 10-kilo lots or more kilo. 60.00 - —
Arnica flowers (true Montana), bls. lb. .75 - —
Aromatic petroleum solvents (see Solvent Naphtha, petroleum, aromatic).
Arsenic, crude (95%), bulk, c.l., works lb. .016 - —
bbls., c.l., works lb. .0.31 - —
Arsenic trioxide, NF, powd., dms., 300-lbs., f.o.b. works lb. .48 - —
Arsenic, white, powd., bbls., c.l., works lb. .04½ - —
bbls., l.c.l., works lb. .06½ - .07¼
Arsenous acid, tech. (see Arsenic, white).
Arsenous acid, USP (see Arsenic trioxide).
Arylid maroons, deep shades, bbls. lb. 3.70 - —
Light shades, bbls. lb. 2.85 - —
Asafetida gum, cns lb. .36 - .40
Powd., bbls., dms lb. .75 - .80
Asbestine (see Talc, fibrous, New York).

Asbestos, Canadian crude
6D, c.l (30 tons), mines ton.86.00 - —
7D, c.l (30 tons) mines ton 75.00 - —
7F, c.l (30 tons), mines ton 71.00 - —
7H, c.l (30 tons) mines ton 61.00 - —
7K, c.l (30 tons) mines ton 50.00 - —
7M, c.l (30 tons) mines ton 44.00 - —
7R, c.l. (30 tons) mines ton 43.00 - —
7RF, c.l (30 tons) mines ton 44.00 - —
7T, c.l. (30 tons), mines ton 41.00 - —
7TF, c.l (30 tons) mines ton 44.00 - —
Asbestos prices are in Canadian funds; l.c.l lots $4 per ton higher
Ascorbic acid, USP, dms., 100-kilos kilo. 6.80 - —
dms., less than 100-kilos kilo. 7.05 - —
Ash, black (see Barium sulfide)
Asphalt, gilsonite, black jet, bgs., c.l., mines ton.43.00 - —
ex-whse, 5 tons or more, N. Y., N. J ton.89.50 - —
select, brilliant black, 340°-360°F. fusing pt., bgs., c.l., mines, ton.46.00 - —
270°-295°F. fusing pt., bgs., c.l., mines ton.43.00 - —
Asphalt, petroleum, cut-back, tanks, tankwagon, refy gal. .09½ - —
emulsion, tanks, tankwagon, refy gal. .09½ - —
steam-refd., 50-80 penetration, tanks, tankwagon, refy. ton.21.00 - —
85-300 penetration, tanks, tank wagon, refy ton.20.00 - —
Aspirin (see Acetylsalicylic Acid).



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★ *Butyl Alcohol* ★ *Acetone* ★ *Refined Fusel Oil*
★ *Butyl Acetate* ★ *Acetaldehyde* ★ *Proprietary Solvent*
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Atropine, NF, tins ..... oz. 5.75 - 7.50
Atropine sulfate USP, bots .... oz 5.25 - 5.75
Azelaic acid, bgs., c.l., divd. ... lb. .40 - —
bgs., ton lots, same basis ..... lb. .41 - —

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .65 - —
less than 1,000,000,000 units, 50,000 units. .70 - —
Balm of Gilead buds, dried, bgs lb 1.25 - 1.35
Barberry root bark, bgs lb 1.00 - 1.10
Barbital, NF, 100-lb dms., f.o.b. works lb 4.50 - —
Barbital sodium, NF, 100-lb dms. lb. 4.75 - —
Barium carbonate, precip., bgs., c.l., works ton.111.50 - —
bgs., smaller lots, works ton.126.50 - —
Barium chlorate, dms., works lb. .32 - .41
Barium chloride anhyd., bgs., c.l., works ton.176.00 - —
bgs., t.c.l., works ton.196.00 - —
NF, cryst., dms., 400-lbs., works lb. .23 - —
Tech., cryst., bgs., c.l., works, 100 lbs. 7.00 - —
bgs., t.c.l., works 100 lbs. 8.00 - —
Barium chromate, bgs., frt. equaid, lb. .38 - —
Barium dioxide (see Barium peroxide).
Barium hydrate, cryst., bgs., c.l., t.l., frt. equaid ton.208.00 - —
bgs., t.c.l., t.l., frt equaid ton.218.00 - —
Barium monohydrate, 99%, bgs., c.l., frt. equaid 100 lbs.11.25 - —
bgs. t.c.l., frt. equaid 100 lbs.11.75 - —
Barium monoxide (see Barium oxide).
Barium nitrate, bbls., c.l., t.l., divd lb. .16 - —
bbls., t.c.l., t.t.l., divd. .... lb. .17 - —
Barium oxide, grd., dms., c.l., t.l., frt equaid ton275.00 - —
dms. t.c.l., t.t.l., frt equaid ton.285.00 - —
Barium peroxide, dms., frt. equaid. lb .20 - —
Barium stearate, ctns. c.l., frt. alld, lb .41 - —
ctns., t.c.l. same basis ..... lb. .42 - .46
Barium sulfate, tech (see Barytes and blanc fixe).
Barium sulfate, X-ray, 100-lb dm. lb. .10 - —
Barium sulfide, dms., c.l., works, ton.100.00 - —
dms., t.c.l., works ton.110.00 - —
Barytes, southern off-color, bgs., mines ton 30.00 - —
95-75%, bgs., mines ton.30.00 - —
white, water-grd paper bgs. c.l. St. Louis ton.60.00 - 60.25
paper bgs., ex whse New York ton 84.85 - —
Battery acid, cbys., c.l., works E. 100 lbs 2.35 - —
cbys, t.c.l., works, E.... 100 lbs. 2.65 - 10.95
Bauxite, bulk, mines ..... ton 7.00 - 10.00
Bay oil, NF, Puerto Rican, 50-55% cns lb 2.40 - 2.70
55-60%, cns. ..... lb. 2.55 - —
NF, West Indian, 50-55%, cns. dms lb. 2.50 - —
Bayberry wax, bgs ..... lb. .65 - .70
Beeswax, crude, African, bgs ... lb. .54 - .55
Brazilian, bgs. ..... lb. .58 - .59
Central American, bgs ..... lb. .54 - .55
Chilean, bgs. ..... lb. .59 - Nom.
Refd., USP bleached white, bricks 100-lb. ctns lb. .67 - .69
white, slabs, 100-lb. ctns lb. .66 - .68
yellow, bricks, 100-lb ctns lb 59 - 61
yellow, slabs, 100-lb. ctns lb 58 - 60
Belladonna leaf, bls. ..... lb. .24 - .26
Belladonna root, bls. ..... lb. .28 - .35
Bentonite, dom. 200 mesh, bgs., c.l., mines ton.14.00 - —
Imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.95.20 - —
bgs., 1-ton lots, ex whse ton.99 00 - —
Imp. Italian, white, low gel., bgs., 5-ton lots, ex whse ton.93.40 - —
bgs., 1-ton lots, ex whse ton.97.16 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF dms ..... lb. .80 - 1.05
Tech., dms., c.a., t.l. ..... lb. .47 - —
dms., t.c.l. ..... lb. .48 - —
Benzene, pure or nitration, tanks, works:
Baton Rouge, La ..... gal. .34 - —
Bethlehem, Pa ..... gal. .34 - —
Birmingham district ... gal. .34 - —
Chicago district ..... gal. .34 - —
Cleveland district ... gal. .34 - —
Geneva, Utah ..... gal .34 - —
Houston, Tex. ..... gal. .34 - .40
Johnstown, Pa ..... gal. .34 - —
Benzene, pure or nitration, tanks, works:
Lorain, Ohio ..... gal. .34 - —
Middletown, Ohio ... gal. .34 - —
Mennequa, Colo. ... gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .34 - —
Port Arthur, Tex. ... gal. .34 - —
Benzene, pure or nitration, tanks, works:
St. Louis, Mo. District gal. .34 - —
Syracuse, N. Y. ..... gal. .34 - —
Terre Haute, Ind. ... gal. .34 - —
Youngstown, Ohio ... gal. .34 - —
Lackawanna, N. Y. ... gal. .34 - —
Lone Star, Tex ..... gal. .34 - —
Benzene hexachloride 25% and 99% gamma isomer (see Lindane).
Benzene hexachloride, tech., high gamma, bgs., c.l., t.l., consignment, divd. gamma-unit. .0075 - —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit. .0065- —
Tech., low gamma, bgs., c.l., t.l., consignment, divd gamma-unit. .0075- —
bgs., c.l., t.l., direct sale, f.o.b. works gamma-unit. .0056- —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.19 - —
bbls., t.c.l., same basis lb. 1.21 - —
Benzidine sulfate, tech., bbls., frt. alld., 100% basis lb 1.21 - —
Benzidine yellow, AAA, bbls., divd. lb. 2.30 - —
AAOT, bbls., divd. ..... lb 2.55 - —
Lightfast, bbls., divd. ..... lb 3.40 - —
Benzocaine, dms., 100-lbs., frt alld. lb. 3.25 - —
Benzoic acid, tech., dms., c.l., t.l., frt. alld lb. .25 - .37
dms., t.t.l., same basis ..... lb. .29 - .41
tanks, same basis ..... lb. .21 - —
USP, bbls., dms., ton lots lb. 48 - —
bbls., dms., 1,000-lb lots lb. 50 - —

BENZOL
Benzol quotations, both coaltar and petroleum, may be found under Benzene.

Benzoin gum, Sumatra, cs. ..... lb. .32 - —
Benzophenone, dms ..... lb. 1.35 - 1.40
Benzotriazole, tech. dms., 1,000-lb. lots, works lb. 1.95 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equaid lb. .21 - —
cbys., smaller lots, frt. equaid lb. .23 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equaid lb. .22 - —
cbys., t.c.l., same basis lb .23 - —
tanktrucks, divd Metropolitan area lb. .21 - —
Benzoyl peroxide, purif., fib. dms., 50 to 1,000-lb lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .54 - —
Benzyl alcohol, NF, dms. ... lb. .54 - —
Tech., dms., divd lb. .47½- .65
Benzyl benzoate, USP, 40-lb. dms.lb. .62 - —
Benzyl chloride, tech., cbys., dms., c.l., works, frt. equaid lb. .22½- .25½
cbys., dms., t.c.l., same basis lb. .23½- .25½
tanktrucks, divd. Metropolitan area lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices are ½c. lower.
Benzyl cinnamate, cns. ..... lb 3.30 - 3.60
N-Benzyl-N,N-dimethylamine, 50 dms., frt. alld lb. 1.25 - —
12-49 dms., same basis ..... lb. 1.35 - —
1-11 dms., same basis ..... lb. 1.90 - —
Benzyl formate, cns. ..... lb. 1.70 - 1.85
Benzyl isoeugenol, cns ..... lb. 8.20 - 8.30
Benzyl propionate, bots ..... lb. 1.30 - 1.35
Benzyl salicylate, bots ..... lb. 1.50 - 1.85
Benzylidine acetone, bots ..... lb. 1.65 - 1.75
Benzylidine chloride (see Benzal chloride).
Berberine bisulfate, cns lb 56.50 - —
Berberine hydrochloride, bots lb.56.50 - —
Bergamot oil, nat., NF Italian, cns. lb.11.00 - 12.00
Betagammapicoline (see b.g-Picoline).
Betahydroxynaphthoic acid (see b-Oxynaphthoic acid).
Betamethylnaphthalene (see Methylnaphthalene).
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaoxynaphthoic acid (see b-Oxynaphthoic acid).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride tech.).
Biotin, cryst. bots gram.10.00 - —
Biphenyl (see Diphenyl).
Birchtar oil, crude cns ..... lb 1.50 - 1.90
Rectified, cns ..... lb 1.75 - 2.00
Bismuth chloride, jars ..... lb 5.11 - —
Bismuth hydroxide, dms ..... lb 4.60 - 4.65
Bismuth metal, bxs, ton lots lb. 2.25 - —
Bismuth nitrate, cryst., 250-lb dm lb. 2.25 - —
Bismuth oxychloride 25-lb dm., f.o.b. works lb 4.42 - —
Bismuth subcarbonate, USP 150-lb. dm lb 3.70 - —
Bismuth subgallate, NF, 200-lb dm., f.o.b. works lb. 3.98 - —
Bismuth subiodide, fib dms lb 5.37 - —
Bismuth subnitrate, NF, 200-lb dm., f.o.b works lb 3.15 - —
Bismuth subsalicylate USP 100-lb. dm., f.o.b. works lb. 4.15 - —
Bismuth trioxide, 100-lb. dms., f.o.b works lb. 4.40 - —
Bismuth-ammonium citrate, USP, powd., jars lb. 4.22 - —
Bisphenol-A, bgs., c.l., t.l., single shipt., 70,000-lbs or more, frt. alld lb. .29½- —
bgs., c.l., t.l. less than 70,000 lbs., same basis lb. .30 - —
bgs., t.c.l., same basis lb .31 - —
Blackberry root bark, bls lb 50 - .55

BLACK PIGMENTS
Black pigment quotations are listed individually. For example, prices on Black, acetylene, may be found in the A's under Acetylene black.

Blanc fixe, direct process, bgs., c.l., works ton.160.00 - —
bgs., t.c.l., works ton.170.00 - —
bgs., t.c.l., New York whse ton.215.00 - —
Blood, dried, 16-16½% ammonia, bgs., New York unit-ton 5.50 - —
Bloodroot, bls. ..... lb. .85 - .90

BLUE PIGMENTS
Blue pigment quotations are listed individually. For example, prices on Blue, ultramarine, may be found in the U's under Ultramarine blue.

Blue dyes (see Dyes)
Blue vitriol (see Copper sulfate)
Bois de rose oil, Brazilian, dms lb. 2.05 - —
Peruvian, dms. lb. 1.65 - —
BON acid maroons, pure, bbls lb 1.75 - —
Resinated, bbls. lb 1.50 - —
Bone black, dms., c.l., frt. alld lb. .1750- .2225
t.c.l., works lb. .1950- .2425
Pacific coast bone black prices 3¼c. per lb. higher
Bonemeal, steamed works E ton 80.00 - —
Bone phosphate defluorinated of lime (see Defluorinated phosphate).
Bone phosphate, precip (see Calcium phosphate tribasic)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton 92.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs 5.42 - —
bgs., smaller lots same basis 100 lbs 6.67 - 10.67
bulk, c.l., works ton 83.00 - —
Borax, tech., gran., decahydrate, 99½%, bgs., c.l., works, ton.50.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs 5.32 - —
bgs., smaller lots same basis 100 lbs 6.57 - 8.57
bulk, c.l., works ton 43.50 - —
pentahydrate, 99½%, bgs., c.l., works ton.64.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs 6.05 - —
bgs., smaller lots same basis 100 lbs 7.30 - 9.30
bulk, c.l., works ton.58.00 - —
USP, powd., bgs. c.l., works ton.54.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 6.45 - —
bgs. smaller lots, same basis. 100 lbs 7.70 - 9.70
Bordeaux powder, tribasic bgs c.l., divd lb. .24 - —
bgs., t.c.l., same basis lb .26 - —
Boric acid, tech., anhyd., 99.9% bgs., c.l., works ton.335.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs.19.62 - —
bgs., smaller lots, same basis. 100 lbs.20.87 - 22.87
cryst, 99.9% bgs. c.l. works ton.163.50 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs.11.05 - —
bgs., smaller lots, same basis. 100 lbs.12.30 - 14.30
Boric acid, tech., cryst., 99.9%, dms., c.l., works ..... ton.188.80 - —
dms., ton lots, ex whse., New York or Chicago, 100 lbs.12.36 - —
bgs., smaller lots, same basis 100 lbs.13.68 - —
Boric acid, gran., 99.9%, bgs., c.l., works ton.112.00 - —
bgs., ton lots, ex whse, New York or Chicago 100 lbs. 8.47 - —
bgs., smaller lots, same basis, ton.174.25 - —
dms., c.l., works ton.137.00 - —
dms., ton lots, ex whse, New York or Chicago 100 lbs. 9.73 - —
dms., smaller lots, same basis 100 lbs.10.47 - —
bulk, c.l., works ton.106.00 - —
powd., bgs., ton lots, ex whse., New York or Chicago, 100 lbs. 8.85 - —
bgs., smaller lots, same basis 100 lbs.10.10 - 12.10
Boric acid, powd., dms., smaller lots, same basis 100 lbs.11.45 - —
USP boric acid $25 per ton higher in bags.
Borneol, cns. ..... lb. 3.75 - —
Boron trichloride, CP, 1,800-lb. cyls., works lb. 1.25 - —
100-lb. cyls. works lb. 1.70 - —
Boron trifluoride, gas, cyls., t.l., works lb. .70 - —
cyls., t.t.l., works ..... lb. .70 - —
Brimstone (see Sulfur).
Broenner's acid, bbls. ..... lb. 1.53 - —
Bromine, purif., cs. c.l., t.l., divd. E of Rockies lb. .32 - —
cs., t.c.l., same basis lb. .34 - .39
ret. dms. c.l., t.l. divd. E. of Rockies lb. .31 - —
ret. dms., t.c.l., same basis lb. .31 - .34
tanks, same basis lb. .21½- —
Bromochloromethane, dms., c.l., frt. equaid lb. .48 - —
dms., t.c.l., same basis lb. .50 - —
tanks, same basis lb. .47 - —
Bromoform, pharmaceutical grade, 5-gal, cby., frt. equaid lb. 1.95 - —
Bromstyrol, bots ..... lb. 5.25 - 5.35
Brucine, cns ..... oz. Nominal.
Brucine sulfate, NF, cns. ..... 1.45 - 1.75
Buchu leaves, bbls. ..... lb. .70 - .75

BROWN PIGMENTS
Brown pigment quotations are listed individually. For example, prices on Brown, Iron oxide, may be found in the I's under Iron oxide brown.

Butadiene, retd cyls., c.l., refy lb .21 - —
cyls., t.c.l., refy ..... lb. .22 - —
tanks, divd. ..... lb. .12¾- —
Butene-1, tanks, works ..... lb. .0625- —
Butene-2, tanks, works ..... lb. .0570- —
n-Butyl acetate, ferment, dms., c.l., frt. alld lb. .17 - —
dms., t.c.l., same basis lb. .18½- —
tanks, same basis lb. .14½- —
Syn. dms., c.l., divd. E lb. .17 - —
dms., t.c.l., same basis lb. .18½- —
tanks, same basis lb. .14½- —
sec-Butyl acetate, syn. dms., c.l., divd. E lb. .14¾- —
dms., t.c.l., same basis lb. .16¼- —
tanks, same basis lb. .12¼- —
n-Butyl acrylate, dms., c.l. or t.l., straight or mixed frt. alld. E lb. .37½- —
dms., t.t.l., same basis ..... lb. .38½- —
tanks, same basis ..... lb. .35 - —
Prices of n-Butyl acrylate are 1c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
n-Butyl alcohol, ferment, dms., c.l., frt. alld lb. .18 - —
dms., t.c.l. frt. alld lb. .19½- —
tanks, frt. alld. lb. .15½- —
n-Butyl alcohol, syn., dms., c.l., divd lb. .18 - —
dms., t.c.l., frt. alld lb. .19½- —
tanks, divd lb. .15½- —
Sec-synthetic, dms., c.l., divd lb. .15 - —
dms., t.c.l., divd. lb. .16½- —
tanks, divd lb. .12½- —
n-Butyl alcohol, tert-synthetic, dms., c.l., frt. alld., divd E lb. .16 - —
dms., t.c.l., same basis lb. .17½- —
tanks, same basis lb. .13½- —
Butyl aldehyde (see Butyraldehyde).
Butyl chloride, dms., c.l., works lb. .37½- —
dms., t.c.l., works lb. .38¼- —
n-Butyl ether, dms., c.l., works lb. .35¼- —
dms., t.c.l., works lb. .36 - —
tanks, works lb. .33¼- —
Butyl lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½- —
dms., t.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Butyl laurate, dms., works lb. .37½- —
Butyl methacrylate, dms., c.l., t.l., works lb. .55 - —
dms., t.c.l., works lb. .55½- —
Butyl oleate, refd., dms., t.c.l., works lb. .32 - —
Butyl phenylacetate, dms. lb. 4.50 - 4.60
Butyl phthalate (see Dibutyl phthalate)
Butyl stearate, dms., c.l., frt. alld E. of Rockies lb. .27¼- —
dms., t.c.l., same basis lb. .28¼- —
Butylamine (see Mono-, Di- and Tributylamine).
tert-Butylamine, dms., c.l., t.l., f.o.b. works lb. .47 - —
dms., t.c.l., same basis lb. .47½- —
tc., t.t., same basis ..... lb. .45 - —
Butylated hydroxyanisole, food grade, dms. divd lb 4.75 - —
6-tert-Butyl-m cresol (see Mono-tert-butyl-m cresol)
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p cresol)
1,3 Butylene glycol, dms., c.l., t.l., divd lb. .20½- —
dms., t.c.l., t.t.l., f.o.b. works lb. .22 - —
tanks, divd lb. .18 - —
p-tert-Butylphenol, bgs., c.l., divd., lb. .27½- —
bgs., t.c.l., works lb. .28½- —
Butyraldehyde, dms., c.l., divd lb. .22 - —
dms., t.c.l., divd. lb. .23½- —
tanks, divd lb. .19¼- —
Butyric acid, 99%, dms., c.l., frt. equaid lb. .34 - —
dms., t.c.l., same basis lb. .34½- —
tanks, same basis lb. .32½- —
Butyric ether (see Ethyl butyrate)
Butyrolactone, dms., c.l., t.l., works, lb. .40 - —
dms, t.c.l., same basis lb .42 - —
n-Butyronitrile, dms., c.l., divd lb. .56½- —
dms., t.c.l., divd. ..... lb. .57½- —
tanks, divd. ..... lb. .54 - —

C

Cacao butter (see Cocoa butter).
Cadmium CP red dark shade, bbls., frt alld E of Rockies lb 5.55 - —
Light shade, bbls., same basis lb 4.65 - —
medium shade, bbls., same basis lb 5.30 - —
Medium light shade, bbls., same basis lb 4.90 - —
Orange-red shade, bbls., same basis lb 4.30 - —
Yellow, all shades, bbls, frt alld E. of Rockies lb. 2.95 - —
Cadmium chloride, 400-lb. dms., f.o.b. shipping point lb. 1.49 - —
Cadmium iodide, 25-lb fib dms lb 6.75 - 7.00
Cadmium metal, ingots or sticks, ton lots, cs., divd. lb. 1.60 - —
Cadmium nitrate, purif. cryst., 400-lb. dms., less than 5,000 lbs., f.o.b. shipping point, lb. .89 - —
400-lb. dms., 5,000 lbs. or more, same basis lb. .87 - —
Cadmium-mercury lithopone orange, deep shade, bbls., frt. alld E. of Rockies lb. 1.70 - —
Cadmium-mercury lithopone red, dark shade, bbls., same basis lb. 2.00 - —
Red, light shade, bbls., same basis lb. 1.77 - —
Red, medium shade, bbls. same basis lb. 1.92 - —
Red, medium light shade obts., same basis lb. 1.85 - —
Red, maroon shade, obts same basis lb. 2.08 - —
Cadmium-selenide lithopone maroon, bbls., frt. alld E of Rockies lb. 2.81 - —
Orange, bbls., same basis ..... lb. 1.63 - —
Cadmium-selenide lithopone red, orange-red shade bbls., same basis lb. 1.77 - —
Red, dark shade, bbls. same basis lb. 2.61 - —
Red, light shade, bbls., same basis lb. 1.63 - —
Red, medium shade, bbls., same basis lb. 2.28 - —
Red, medium-light shade obts., same basis lb. 2.05 - —
Cadmium-selenide, lithopone, yellow, all shades bbls frt alld E. of Rockies lb. 1.24 - —
Caffeine, NF citrated, dms 100-lb. lots or more lb 2.70 - —
USP, nat., cryst, anhyd., dms., 100-lb lots or more lb 2.10 - —
Caffeine, USP nat., cryst, hydrous, dms, 100-lb lots or more, lb 1.96 - —
Caffeine, USP, syn., anhyd., dms., 100-lb. lots or more .... lb. 2.10 - —
cryst. hydrous, dms. 100-lb lots or more lb 1.96 - —
Cajuput oil, native, cns. ..... lb 1.75 - 2.00
Redist, USP cns ..... lb 1.90 - 2.10
Calamine USP dms. ..... lb .34 - —
Calamus oil bots ..... lb.12.00 - 20.00
Calciferol, cryst., 10-kilo or more lots, works gram .54 - —
1-10 kilo lots gram .55 - —
Calciferol in edible oil (see Viosterol).
Calcium p-aminosalicylate trihydrate fib dms. 100 lbs. or more frt adjusted lb 3.10 - —
Calcium bromide, NF jars 100 lbs. or more lb. 1.10 - —
Calcium carbide standard generator size, 600-lb dms. c.l., divd ton.149.00 - —
Calcium carbonate, nat., dry-grd., air floated, 325 mesh, bgs. c.l. works ton.10.50 - —
Calcium carbonate, chalk, whiting, 325 mesh, bgs. c.l. works ton.32.00 - 34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns bgs., c.l., works ton.17.00 - 18.00
Calcium carbonate, precip., dense, bgs., c.l., works ton.30.00 - 38.50
bgs. t.c.l., works ton 45.00 - 53.50
medium, bgs. c.l., works ton 36.00 - —
bgs. t.c.l. works ton 48.00 - 53.00
Calcium carbonate, surface treated, bgs. c.l., works ton.42.00 - 44.00
bgs., t.c.l., works ton.57.00 - 59.00
ultrafine, bgs. c.l., works ton.117.50 - 167.50
bgs t.c.l., works ton.137.50 - 187.50
Calcium chloride conc. flake or pellet 94-97%, paper bgs., c.l. works, frt equaid ton.39.30 - —
Flake, 77-80%, paper bgs., c.l., works, frt. equaid ton.32.00 - —
Liquor, 40% tanks, frt equaid ton.12.50 - —
Powd., 77% min., paper bgs. c.l., works, frt equaid ton.37.00 - —
Purif., gran. dms lb .27 - —
Calcium chloride, solid, 73-75% dms., c.l., frt. equaid ton.29.50 - —
dms. t.c.l. works frt equaid ton.36.00 - 73.00
USP gran. dms. lb .32 - —
Calcium chromate, bgs., divd lb. .37 - —
Calcium cyanide dms., c.l., divd E. of Rockies lb. .20 - —
dms., t.c.l. same basis lb. .24 - .58
Calcium cyclamate, 100-lb dms lb. 1.95 - —
Calcium gluconate, USP, AA grade, 100-lb dm., ton lb. 73½- —
USP powd. 100-lb dm. ton lb. .66½- —
Calcium hydride (lump), dms. works, lb. 2.20 - 3.00
Calcium hypochlorite, high test, gran., 45-lb. cs., divd E. of Rockies cs.23.85 - 25.60
100-lb dms. same basis dm.33.30 - 36.55
Calcium hypophosphite, dms, 1,000-lb lots lb. 1.28 - —
Calcium iodide, 25-lb. jars, works, lb. 4.27 - —
Calcium lactate, NF, dms., f.o.b. works lb. .43 - .46
Calcium mandelate, USP, 150-lb. dm., works lb. 3.25 - —
Calcium naphthenate, liq., 4% Ca., dms., frt equaid lb. .30 - —
Calcium pantothenate, USP, jars, 1 kilo or more kilo.35.00 - —
Calcium para-aminosalicylate (see Calcium p-aminosalicylate).
Calcium phenosulfonate, dms lb. 1.24 - 1.25
Calcium phosphate, dibasic, USP, bgs. c.l. frt equaid 100 lbs.16.00 - —
Dibasic, feed grade, 18½% P, bgs., c.l., t.l., Bonnie, Fla., frt. equaid ton.81.00 - —
bgs. c.l., t.l., f.o.b. Texas City works ton.75.50 - —
bgs., t.c.l., ton.96.00 - —
Calcium phosphate, dibasic, feed grade, 21% P., bgs., c.l., t.l., frt. equaid ton.97.65 - —
bgs. t.c.l. frt equaid ton.107.65 - —
Prices of calcium phosphate dibasic in bulk $3 per ton less than bgs. c.l., prices.
Calcium phosphate, monobasic, bgs., 10,000-lb lots, frt. equaid, 100 lbs. 7.45 - —
bgs., smaller lots, same basis, 100 lbs. 7.95 - —
Tribasic, NF, precip., bgs., c.l., works, frt. equaid 100 lbs. 9.25 - —
bgs. t.c.l., frt. equaid 100 lbs.10.00 - —
Calcium propionate, any quantity, dms., divd E. of Rockies. lb. .34½- —
Prices W of Rockies 3c. per lb more.
Calcium phytate, bgs., 50 lbs. or more f.o.b. warehouse N Y lb. .39 - —
Calcium resinate, precip., dms., frt. alld., works lb. .45 - —

Calcium silicate hydrated, bgs., c.l., works lb. .09 - —
bgs., l.c.l., works lb. .09½ - —
Calcium silicate, paint grade (see Wollastonite).
Calcium stearate, ctns., c.l. lb. .39 - —
ctns., l.c.l. lb. .40 - .44
Calomel, NF mild, powd., dms., 100-lbs., f.o.b. works lb 4.32 - —
NF, mild, precip., dms., 100-lbs., f.o.b works lb 5.67 - —
Camphene, 46° m.p., dms incl., c.l., works lb. .15 - —
dms. incl., l.c.l. same basis lb. .16½ - —
tanks, same basis lb. .12½ - —
Camphene chlorinated 67-69% (see Toxaphene)
Camphor, monobromated, NF, dms., kgs lb. 3.63 3.70
Camphor, syn., tech., 1 bbl. or more. lb. .48 - —
USP, gran., powd., bbls., 1,000-lb. lots lb. .58 - —
bbls., smaller lots lb. .59 - —
tablets, ctns., 1,000-lb. lots. lb. .80 - —
ctns., 500-lb. lots lb. .81 - —
ctns., smaller lots lb. .82 - —
Camphor oil, sassafrassy, dms. lb. .35 .55
White, dms. lb. .26 .50
Cananga oil, native, ens. lb 5.00 6.50
Rectified, ens lb 7.25 10.00
Candelilla wax, crude, bgs. lb. .55 .56
Refd., pure, bgs lb. .60 .62
Powdered Candelilla wax 20 to 100 mesh 8c. higher.
Cantharides, Chinese, cs. lb. 1.00 —
powd., bgs. lb. 1.15 —
Russian bgs. lb 2.00 2.15
powd., bgs. lb 2.15 2.30
Capric acid, dms lb. .29½ - .31¾
tanks lb. 26¾ - —
Caprolatam monomer, bgs., c.l., t.l., f.o.b works lb. .52 - —
bgs., l.c.l., t.t., same basis lb. .57 - —
tanks, same basis lb. .49 - —
Caprylic alcohol 65% dms., c.l., t.l., works lb. .19 - —
dms., l.c.l., same basis lb. .19½ - —
tanks, frt. equald. lb. 16½ - —
Sec. 92-99% dms., c.l., f.o.b. works lb. .22 - —
dms., l.c.l., f.o.b. works lb. .23 - —
tanks, f.o.b works lb. .19½ - —
Caprylic acid, dms lb. .29½ - .31¾
tanks lb. 26¾ - —
Capsicum (see Pepper red).
Capsicum oil (see Capsicum oleoresin).
Capsicum oleoresin, NF, from dom. pepper, dms lb. 4.00 - —
NF, from African pepper, dms. lb. 4.50 - —
Caraway oil, NF, dms lb. 3.75 - —
Caraway seed Danish, bgs. lb. .16 - —
Dutch, bgs. lb. .18 - —
Polish, bgs. lb. .17¼ - —
Carbazole, 97%, bbls, ton lots, works lb. 1.05 - —
Carbon black, channel, rubber beads, bulk, c.l., works lb. .08 - —
bgs. c.l., works lb. .08½ - —
bgs., l.c.l., works lb. 16¼ - —
Carbon black, furnace, fast extruding, bgs., c.l., works lb. .08¾ - —
ctns., l.c.l., whse lb. .13½ - —
Carbon black, high abrasion, bulk, c.l., works lb. .07¼ - —
bgs., c.l., works lb. .07¾ - —
bgs. l.c.l., dlvd. or whse lb. .14½ - —
high modulus, bgs., c.l., works. lb. .06¼ - —
ctns. l.c.l., whse. lb. .13 - —
semi-reinforcing, bgs., c.l., works lb. .05¾ - —
bgs., ctns., l.c.l., whse lb. .12½ - —
pigment, high color beads, ctns., c.l., works lb. .78 - —
ctns., l.c.l., dlvd. or whse lb. .87 - —
medium color, uncompressed, bgs., c.l., works lb. .14 - —
bgs., l.c.l., dlvd. or whse lb. .22½ - —
Carbon dioxide, indust., wholesale, bulk, 30,000-2,999,999 lbs., dlvd. Metropolitan areas, E ton.60.00 -115.00
bulk, 3,000,000 lbs. or more, dlvd. Metropolitan areas, E ton.55.00 - —
Solid, bulk, wholesale, works ton.85.00 - —
Carbon disulfide, 55-gal. dms., c.l., works, frt. equald to competitive points lb. .071 - —
55-gal. dms., l.c.l., same basis lb. .086 - .091
5-gal. dms., 30 dms. to c.l., same basis lb. .131 - —
5-gal. dms., less than 30 dms., same basis lb. .161 - —
tanks, dlvd. lb. .0520 - —
Carbon tetrachloride, CP, consumers, dms., c.l., frt. alld. lb. .12¾ - —
dms., l.c.l., frt. alld. lb. .15¼ - —
Tech., consumers dms., c.l., t.l., frt. alld lb. .11¾ - —
dms., l.c.l., t.t.l., frt. alld lb. .14¼ - —
tanks, frt. alld lb. .10¾ - .11¼
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb lots, works lb. 4.00 - 4.25
dms., smaller lots, works lb. 4.10 4.75
Cardamom oil, NF, bots lb.43.00 -45.00
Cardamom seed, bleached "A" lb. 3.45 - —
Bleached "B" lb. 3.15 - —
Decorticated Alleppey, cs lb. 2.15 - —
Guatemala, cs. lb. 2.85 - —
Green, Alleppey, bgs. lb. 2.15 - —
Ceylon, bgs. lb. 2.20 - —
Carmine No. 40, NF, bulk, 100-lb. lots or more, dlvd. lb.16.80 - —
bulk, smaller lots, dlvd. lb.16.90 -17.30
Carnauba wax, chalky, bgs., ton lots. lb. .74 Nom.
North Country, No. 2, crude, bgs., ton lots lb. .80 - .82
refd., pure, ton lots lb. .87 - .88
North Country, No. 3, Ceara, crude, ton lots lb. .68 - .70
North Country, No. 3, Parnahyba, crude, ton lots lb. .70 - .72
No. 3, refd., pure, bgs., ton lots. lb. .76 - .78
No. 1, Ceara, yellow, bgs., ton lots. lb. .97 - .99
Parnahyba, yellow, bgs., ton lots. lb. .99 - 1.01
Powdered carnauba wax, 20 to 100 mesh 8c. per lb. higher.
Carotene, tech., 1,350,000 A units per gram tins, 5-10 kilo lots, dlvd gram. .20½ - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .13 - —
USP, microcrystalline in oil, 400,000 A units per gram., dms., dlvd million units. .144 - —
b-Carotene, in vegetable oil, semi-solid suspension, 400,000 A units per gram cns kilo.57.60 - —
b-Carotene, liquid in vegetable oil, 500,000 A units per gram, cns kilo.72.00 - —
Pure, cryst., 1,600,000 to 1,670,000 A units per gram, cns. kilo.240.00 - —
Carvol, bots. lb. 5.00 5.40
Cascara sagrada bark, bulk lb. .33 - —

Casein, dom., edible, acid precip., 30 mesh., bgs., 10,000-lb. lots or more, works lb. .36 - —
edible, acid precip., 80 mesh, bgs., 10,000-lb. lots or more, works lb. .84 - —
Imp., inedible, acid-precip., grd., Argentine, bgs., c.l., ex-dock Eastern seaports lb. .17¾ - .18¼
Australian, bgs., c.l., same basis lb. .22¼ - .23¼
New Zealand, same basis lb. .24 - .25
Cashewnut shell, liquid, treated, dms., c.l., Newark, N.J. lb. .24 - —
dms. ton lots, same basis lb. .25 - —
t.w., same basis lb. .22½ - —
Cassella acid, dms., frt. alld., 100% basis lb. 1.44 1.75
Cassia oil, redist., USP, ens lb. 7.50 9.00
Cassia, Padang, "A," bls lb. .31 - —
"B," bls. lb. .30 - —
"C," bls. lb. .29 - —
Korintje "A," bls. lb. .34 - —
"B," bls. lb. .30 - —
"C," bls. lb. .30 - —
Castor oil, dom., blown, dms., c.l. lb. .2550 - —
dms., l.c.l. lb. .2650 - —
Castor oil, dom. dehydrated, bodied, dms., c.l lb. .2700 - —
dms., l.c.l. lb. .2850 - —
tanks lb. .2500 - —
dehydrated, unbodied, dms., c.l. lb. .2500 - —
dms., l.c.l. lb. .2660 - —
tanks lb. .2360 - —
hydrogenated, bgs., c.l. lb. .2450 - —
bgs., ton lots lb. .2850 - —
bgs., l.c.l., dlvd. lb. .3050 - —
No. 1, dms., c.l. lb. .2200 - —
dms., l.c.l lb. .2300 - —
tanks lb. .2000 - —
No. 3, tech., dms., c.l. lb. .2125 - —
dms., c.l., lb. .2225 - —
tanks lb. .1925 - —
Refd. deod., dms., c.l. lb. .2650 - —
dms., l.c.l. lb. .2750 - —
tanks lb. .2450 - —
USP, dms., c.l. lb. .2350 - —
dms., l.c.l lb. .2450 - —
tanks lb. .2150 - —
Imported, No. 1, Braz., tanks lb. .18 - —
Sulfonated, 50%, dms., works lb. .15 - .15½
75%, dms., works lb .19 - .19½
Castor oil acids, dehydrated, dms. lb. .41¼ - .43¼
Split, dms. lb. .33¾ - .34¾
Castor pomace, bgs., c.l., works ton.35.00 - —
Castoreum nat., ens. lb. 5.25 - —
Syn., ens. lb 9.00 - —
Catechol, CP, cryst., fib., dms., works lb 2.17½ - —
Resub., dms., works lb. 4.29½ - —
Catnip leaves, Southern, bls lb. Nominal.
Caustic potash (see Potash caustic).
Caustic soda (see Soda, caustic).
Cedarleaf oil, USP XIII ens., dms. lb. 3.25 3.50
Cedarwood oil, ens., dms. lb. 1.00 - —
Celery seed, French, bgs. lb. .37 - —
Indian, bgs. lb .19 - —
Cellulose acetate, flake, powd., bgs., t.l., dlvd E lb. .36 - .51
Cellulose acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E lb. .545 .555
27% butyryl content, bgs. dlvd. E lb. .595 .605
38% butyryl content, bgs. dlvd. E lb. .545 .555
38% butyryl content, half-second, bgs., dlvd E lb. .545 .555
50% butyryl content, bgs. dlvd. E lb. .585 .595
Cellulose gum, methyl (see Methyl Cellulose).
Cellulose gum, pure, high vis., bgs., 23,000-lb. lots or more works, frt alld lb. .57 - —
bgs., smaller lots, same basis lb. .59 - —
Cerium hydrate 74% CeO, fib. dms., 100-lb. lots or more lb. 1.40 - —
77% CeO, fib. dms., 100-lb. lots or more lb. 1.74 - —
Cerium oxalate (see Rare earth oxalate)
Cerium oxide, optical grade, bgs., 50-lb. lots or more, dlvd. lb. 1.83 - 1.90
bgs., smaller lots, dlvd. lb. 2.15 - —
Cetyl alcohol, NF, fib. cns., c.l., t.l., dlvd. E lb. .41½ - —
fib. cns., l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .39 - —
Extra, cns., c.l., t.l., dlvd. E lb. .48½ - —
fib. cns., l.c.l., same basis lb. .50½ - —
tanks, same basis lb. .46 - —
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian, lb. .83 - 1.00
Roman, cs. lb. 1.50 - 1.75
Chamomile oil, blue Hungarian, bots lb.350.00 - —
Charcoal, activated, NF, fib. dms., c.l., works lb. .34 - —
fib. dms., 5-ton lots, works lb. .35 - .35½
fib. dms., smaller lots, works lb. .36 - .59
Charcoal, black (see Charcoal, activated).
Charcoal, bone (see Bone black).
Charcoal, hardwood, lump, bulk, c.l., f.o.b. plant ton.55.00 - —
briquets, bulk, c.l., f.o.b. plant ton.80.00 - —
5-lb. paper bgs., c.l., same basis ton.106.00 - —
20-lb. paper bgs., c.l., f.o.b. plant, ton.90.00 - —
40-lb. paper bgs. c.l., same basis ton.86.00 - —
Chenopodium oil, NF, ens lb. 4.75 - 5.00
Chicago acid, paste, bbls., frt. alld. lb. 3.21 - —
Chinawood oil (see Tung oil).
Chloral, tech., 94% min., dms., c.l., works lb. .23 - —
dms., l.c.l., works lb. .24 - —
tanks, multiple units, 5 cars, dms., l.c.l., works lb. .21 - —
Chloral hydrate, USP, jars, 1,000-lb. lots lb. 1.00 - —
jars, 500-lb. lots lb. 1.03 - —
jars, 100-lb. lots or less lb. 1.05 - —
Chlordan, agricultural, dms., c.l., frt. alld lb. .65 - —
dms., l.c.l., 5,000-10,000-lb. lots, frt. alld lb. .68 - —
Chlordan, clarified, dms., c.l., frt. alld lb. .69 - —
dms., l.c.l., 5,000-10,000-lb. lots, frt. alld lb. .70 - —
Chlorinated paraffin, 40%., dms., c.l., frt. alld lb. .18 - —
dms., l.c.l., 10 dms. or more, same basis lb. .16 - —
70%, dms., c.l., same basis lb. .18½ - —
dms., l.c.l., 10 dms. or more, same basis lb. .19½ - —
Chlorinated rubber, 5, 10, 20 cps., ctns., c.l., works lb. .60 - —
ctns., l.c.l., works lb. .61 - —
125 cps., ctns., c.l., works lb. .70 - —
300 cps., ctns., c.l., works lb. .80 - —

Chlorine, liq., cyls., c.l., works, frt. equald lb. .21 - —
cyls., l.c.l., Metropolitan area lb. .13¼ - .13¾
tanks, single units, works, frt. equald 100 lbs. 3.25 - —
tanks, multiple units, 5 cars, works, frt equald 100 lbs. 4.15 - —
tanks, multiple units, 4 cars, same basis 100 lbs. 4.25 - —
tanks, multiple units, 2 cars, same basis 100 lbs. 5.35 - 5.85
tanks, multiple units, 1 car, same basis½ 100 lbs. 6.25 - 7.25
Chloroacetic acid, mono, flake, 99%, purif., dms., c.l. lb. .23¼ - .23½
dms. l.c.l. lb. .24½ - —
tech., flake, 96-97%, dms., c.l., dms., l.c.l., frt. equald lb. .20 - —
frt. equald lb. .19 - —
2-Chloro-4-aminotoluene, tech., liq., dms., frt. alld lb. 1.09 - —
4-Chloro-3-aminotoluene, fused, bbls. lb. 1.38 - —
6-Chloro-3-aminotoluene, tech., liq., dms., frt. alld lb. .66 - —
m-Chloroaniline, dms., c.l., frt. alld. lb. .75 - —
dms., l.c.l., same basis lb. .77 - —
tanks, same basis lb. .73 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .52 - —
dms., l.c.l., same basis lb. .54 - —
tanks, same basis lb. .50 - —
p-Chloroaniline, dms., c.l., frt. alld. lb. .77 - —
dms., l.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works lb .1.05 - —
dms., l.t.l., same basis lb. 1.20 - —
p-Chlorobenzaldehyde, dms., l.c.l., works lb. 1.95 - —
o-Chlorobenzoic acid, fib. dms., t.l., works lb. 1.10 - —
fib. dms., smaller lots, works lb. 1.25 - —
p-Chlorobenzoic acid, fib. dms., 2,000-lbs. or more, works. lb. 2.25 - —
fib. dms., less than 2,000-lbs., same basis lb. 2.30 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
Chloroform, USP, dms., c.l., dlvd. lb. .27 - —
dms., l.c.l., dlvd. lb. .30 - —
tanks, minimum 4,000 gals. dlvd. lb. .25 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
Powd., dlvd. E., 100% basis lb. .86½ - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .86 - —
4-Chloro-2-nitrophenol, tech., paste, dms., frt. alld lb. .75 - —
4-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .99 - —
o-Chloro-2-nitrotoluene, tech., solid, dms., frt. alld lb. .20½ - —
o-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
dms., l.c.l., same basis lb. .38 - —
Chloropicrin, comi., cyls., 180 lbs., frt alld lb 1.07 - —
cyls., 100 lbs., same basis lb 1.08 - —
cyls., 50 lbs., same basis lb 1.14 - —
Chlorosulfonic acid, dms., c.l., frt. equald lb. .0465 - —
dms., l.c.l. frt equald lb. .0515 - —
tanks, frt equald lb. .0415 - —
Chlorosulfonic acid, in stainless steel dms ½c per lb higher
o-Chlorotoluene, tech. dms., t.l., works lb. .37 - —
dms., l.c.l., t.t.l., same basis lb. .38 - —
Choline bitartrate, 100-lb. dms., frt. equald lb. 1.25 - —
Choline chloride, 100-lb. dms., frt. equald lb. 1.25 - —
Choline dihydrogen citrate, 100-lb. dms., frt. equald lb. 1.25 - —
Chrome green CP dark, light medium blue content, 1-15%, bbls. dlvd E of Rockies, lb. .43 - —
blue content, 16-30%, bbls., same basis lb. .44 - —
medium blue content, 41-45% bbls., same basis lb. .44 - —
blue content, 45-49%, bbls., same basis lb. .43 - —
Chrome green, reduced color 25%, bbls., same basis lb. .20 - —
Chrome green prices 1c. higher W. of Rockies.
Chrome orange, CP bbls., dlvd E of Rockies lb. .35 - —
Chrome orange prices 1c higher W. of Rockies.
Chrome yellow, CP, bbls., dlvd E. of Rockies lb. .35 - —
Chrome yellow price 1c. higher W. of Rockies.
Chromic acid, 99¾%, dms., c.l., works, frt. equald lb. .29½ - —
dms., l.c.l., dlvd. N. Y. Metropolitan area lb. .30 - .31
Chromic acid, NF (see Chromium trioxide).
Chromium acetate, soln., 7½%, dms., 500-2,000-lb. lots, works. lb. .10 - —
Chromium fluoride, bbls., works lb. .51 - .52
Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld. lb. 1.20 - —
Pure, bgs., c.l., frt. alld lb. .44½ - —
bgs., l.c.l., same basis lb. .45¼ - —
Chromium trioxide, NF, bots lb. 1.15 - —
Cinchona bark, NF, red, broken, bgs lb. .25 - —
NF, yellow, broken, bgs lb. .35 - .40
Cinnamic acid, refd., bots lb. 2.50 3.50
Cinnamic alcohol, bots lb. 1.50 - 1.60
Cinnamic aldehyde, dms. lb. .80 - 1.00
Cinnamon, Ceylon, No. 2, bgs. lb. .53 - —
Ceylon, No. "0000," bgs. lb. .73 - —
Cinnamon bark oil, bots lb.48.00 -56.00
Cinnamon leaf oil, crude, dms lb. 1.60 - 2.00
USP, (Cassia), ens., dms lb. 8.50 -13.50
Citral, CP, bots. lb. 3.60 4.00
Extra, bots. lb. 3.60 - 5.00
Syn., dms. lb. 7.25 - 7.40
Citric acid, USP, anhyd., fine gran., bgs., dms., c.l lb. .29½ - .30
bgs., dms., 10,000-lb. lots, 1 shipt lb. .30 - .30½
bgs., dms., smaller lots lb. .30½ - .31
Citric acid, USP, hydrous, fine gran., bgs., dms., c.l. lb. .27½ - .28
bgs., dms., 10,000-lb. lots, 1 shipt lb. .28 .28½
bgs., dms. smaller lots lb. .29 .29½
Powdered citric acid ½c. per lb. higher.
Citronella oil, Ceylon, dms lb. 1.00 —
Java-type, dms. lb. 1.15 - —

Citronellal, bots., dms. lb. 1.40 - 1.60
Citronellol, bots., dms. lb. 1.90 2.50
Citronellol, synthetic, dms lb. 1.70 —
Civet, artif., bots lb.13.75 15.00
Nat., bots. oz. 8.50 15.00
Clay, ball., dom., airfloated, bgs., c.l., Tenn ton.17.50 21.50
crushed shed moisture, bulk, c.l., Tenn ton. 8.00 11.25
imp., airfloated, bgs., c.l., Atl. port net-ton.43.00 47.00
lump, bulk, Atl. port net-ton.31.50 -37.50
Clay, China, dom., dry-grd., airfloated, 99% 325 mesh, Georgia, bgs., c.l., works. ton.11.00 -17.00
Georgia, bgs., l.c.l., works ton.13.50 -22.50
imp., white, lump, bulk, c.l. ex-dock, Philadelphia, Portland, Me long-ton.23.00 -35.00
white, powd., bgs., c.l., ex dock net-ton.50.00 —
bgs., l.c.l., ex whse net-ton.60.00 -70.00
Cleaners naphtha, petroleum, 105° Flash, tankcars New Jersey and New York gal. 18 —
Group 3 gal. .12475 —
Houston, Texas gal. .145 —
140°F Flash, tankcars, New Jersey or New York gal. .205 —
Group 3 gal. .154 —
Houston Texas gal. .17 —
Cleve's acid, tech., mixed, solid, dms., frt alld lb 1.05 —
1.6, tech., solid, dms. frt alld lb .77 —
1.7, tech., dms. frt alld lb 2.20 —
Clove bud oil, USP, dms. lb. 2.65 - —
Zanzibar, bgs. lb. .41 - —
Clove bud oil, USP dms lb 2.70 3.60
Clove leaf oil, crude, dms lb. 1.25 - —
CMC, crude, 96.4% low or medium vis bgs., 23,000 lbs., dvld. E., 100% basis lb. .40 - —
96.4% low, or medium vis., bgs., less than 23,000 lbs., dlvd. E., 100% basis lb. .42 - .50
65%, low or medium vis. bgs., c.l., dlvd. E., 100% basis lb. .40 - —
l.c.l., dlvd. E., 100% basis lb. .42 - 1.00
purif., high vis. (see Cellulose gum).
CMC, standard low or medium vis., bgs., 23,000 lbs. works, frt. alld lb. .57 —
bgs. smaller lots, same basis, lb. .59 1.00
CMC prices W. of the Rockies are 2c. per lb. lower and are ex. a works basis.
Coaltar, crude resale for soln., tanks, works gal. .17 —
Refd., resale, indust., dms., c.l., ex whse gal. .35 - —
dms., l.c.l., ex whse gal. .39 - —
tanks, works gal. .20½ - —
Coaltar pitch, aluminum, bulk, works. ton.44.00 - —
Carbon and indust., bulk, works. ton.44.00 - —
Core, bulk works ton 40.50 - —
Fiber, bulk works ton 48.00 - —
Roofing, 140-155°F., Federal Specification RP-381 Type 1 tanks, works ton.41.00 - —
Cobalt acetate 23.7% Co. dms., dlvd lb 1.04 —
Cobalt blue, genuine, 250 lb. bbls., dlvd E of Rockies lb. 4.90 —
Cobalt blue prices 1c. higher W. of Rockies
Cobalt blue (imitation (see Ultramarine blue)
Cobalt carbonate 48% Co., powd., bgs., dlvd lb. 1.45 - —
Cobalt chloride, 24.2% Co., dms., dlvd lb. .93 - —
Cobalt hydrate, 60-61% Co., dms., dlvd lb. 1.97 - —
Cobalt linoleate, fused 8½% Co., dms lb. .71¼ - —
Liq., 6% Co. dms lb. .57½ - —
Cobalt metal, 99% dms., f.o.b. carrier lb. 1.50 —
Cobalt naphthenate liq. 6% Co., dms. dlvd lb. .48¾ - —
Cobalt nitrate 20.1% Co. bbls. dlvd. lb. .75 - —
Cobalt oxide, black, ceramic grade, 72½ 73½% Co., kgs., dlvd E of Mississippi R. lb 1.15 - —
70-71% Co kgs. same basis lb 1.12 — —
Cobalt oxide prices W. of Mississippi R. 3c. per pound higher
Cobalt phosphate powd., 32.1% Co., dms., dlvd lb. 1.35 —
Cobalt resinate, fused 3% Co. dms lb. .38½ - —
Cobalt sulfate, cryst., 21% Co., dms., dlvd lb. .64 - —
Monohydrated, 33% Co., dms., dlvd lb 1.09 - —
Cobalt tallate 6% Co., dms. dlvd. lb. .44 - —
Cocaine, USP cns., 100-oz. lots, f.o.b works oz.17.50 - —
Cocaine hydrochloride, cns. 100-oz. lots f.o.b. works oz.13.75 - —
Cocillana bark, bls lb. .18 - .20
Cocoa butter, bgs lb. .60 - .65
Coconut oil, crude, tanks, New York lb. .13¾ - —
tanks, Pac. coast lb. .11¼ - —
Refd., deodorized, dms. lb. .19 - .20
Coconut oil acids, dist., dms lb. .23½ - .26
tanks lb. .21 - —
double dist. (stripped), dms lb .24½ - .27
tanks lb. .22 - —
Cod oil, dms. spot lb. .08½ - .08¾
Codeine, NF, cns., 100-oz. lots oz.13.25 - —
Codeine hydrochloride, cns., 100-oz. lots oz.11.75 - —
Codeine phosphate, USP, cns., 100-oz. lots oz.10.25 - —
Codeine sulfate USP, cns., 100-oz. lots oz.10.75 - —
Codliver oil, USP, dms gal. 1.40 - 1.70
Cohosh root, black, bls lb. .20 - .25
Blue, bls. lb .20 - .25
Colchicine, USP, bots oz.29.00 - —
Colchicum root, bls lb. .35 - .45
Colchicum seed, bgs lb. .75 - .80
Collodion, USP dms lb. .32½ - —
USP flexible dms lb. .34 - —
Colocynth pulp, bls lb. .75 - —
Colombo root, bls lb. .16 - .18
Condurango bark, bls lb. .18 - .20
Congo copal gum, No. 1, bgs lb. .26 - .27
No. 2, bgs. lb. .23 - .25
No. 3, bgs lb. .21 - .24
Copaiba balsam, cns., dms lb. .65 - 1.10
Copaiba oil, cns lb. 1.35 2.00
Copper acetate, bbls., c.l., works. lb. .53 - —
bbls., l.c.l. works lb. .54 - —
Copper carbonate, 55%, dark dense, works lb.34.85 - —
bgs., l.c.l., works lb.36.25 - —
Copper chloride, cupric, anhyd., dms., works lb. .44 - .44½
cryst., dihydrate, dms., works. lb. .30 - .30½
cryst., dried., dms., works lb. .38¼ - .38¾

Copper chloride, cuprous, dms., works lb. .39¼- .42¼
Copper cyanide, tech., dms., 20,000-lb lots or more lb. .609 —
dms., 1,000-lb lots or more lb. .619 —
dms smaller lots lb. .639 .65
Copper gluconate, dms lb 3.20 —
Copper hydrate dry, dms, c.l., frt. E. of Miss lb. .52½- —
dms., l.c.l., same basis lb. .53 - —
Copper metal electrolytic dlvd Valley, basis lb. .30 - —
Copper naphthenate liq. 4% Cu, dms frt alld lb .26½ —
Copper nitrate tech. cryst. dms., works lb .30¾ .32¾
Copper oleate solid 8% Cu dms., works lb 45 —
Copper oxide black bbls 100-5,000-lb. lots, works lb. .46¼ —
Copper oxide, red 97% USN type 1 bbls. 100-5,000-lb lots lb. .47½ —
90% USN Type II, bbls 100-5,000-lb lots or more works lb. .46½ —
Copper quinolinolate 18% Cu dms. ton lots lb 4.25 —
10% active quinolinolate dms lb 1 14 1.15
Copper resinate, precip. dms frt alld lb. .47 - —
Copper sulfate CP, gran., dms., works lb 1885 —
Cryst., 99% bgs., c.l., works 100 lbs.12.25 - —
bgs., l.c.l., works 100 lbs.12.75 -15.25
Copper sulfate, monohydrated, 35%, dms., c.l., works 100 lbs.23.00 - —
dms., l.c.l., works 100 lbs.23.75 - —
Tribasic distributors, bgs., c.l. works 100 lbs.29 60 - —
bgs., l.c.l., works 100 lbs.31.10 - —
Copper undecylenate, dms lb 2.75 —
Copra, Atl., Gulf ports, c.i.f. ton.155.00 - —
Pac. ports, c.i.f. ton.150.00 - —
Coriander oil, USP, bots. lb 7.25 8.75
Coriander seed, Moroccan, bgs lb. .20 - —
Rumanian, bgs. lb. .18 - —
Yugoslavian bgs. lb .08½ —
Corn oil, crude, tanks, works lb. .15½- —
Foots (soapstock) acid, 95%, tanks, New York lb. .05⅝- —
Refd., salad, dms. lb. .2123- .2150
tanks lb. .1923- —
Corn oil acids, dist., dms lb. .14¾- .17¼
tanks lb. .12¼- —
Corn sugar, tanners, chipped, paper bgs. c.l., 60,000 lbs. min. 100 lbs. 7.30 - —
paper bgs., l.c.l 100 lbs 7.45 - —
Corn syrup, 43° Be., tanks, dlvd. N.Y. 100 lbs. 6.30 - —
non-ret. dms., c.l., same basis. 100 lbs. 7.23 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, USP bots., kilo or more gram .95 - 1.75
Costus oil, bots oz. 6.00 —
Cottonseed meal, 41% bgs., Memphis ton.54.50 - —
Cottonseed oil, crude, tanks, South, East lb. .10¼- .10¾
tanks, Valley lb. .10⅛- —
tanks, Texas, Lubbock lb. .10 - —
tanks, Texas, Waco lb. .10⅛- —
Foots (soapstock), acid, 95%, tanks, Texas, Waco lb. .04 - —
Refd., salad, dms. lb. .15⅞- .16⅛
tanks lb. .13⅞- —
Cottonseed oil acids, dist., dms lb. .14¾- .17¼
tanks lb. .12¼- —
Coumarin, NF, cryst. dms lb 3.30 3.40
Cramp bark, NF bls lb .90 1.00
Cream of tartar (see Potassium bitartrate)
Creosote carbonate NF bots, chys., lb 3.05 3.26
Creosote, coaltar, crude, tanks, works, frt adjusted gal. .24 —
Crude, soln 80%, tanks, works. gal. 226 —
Refd., dms., c.l., works gal. 50 - —
dms., l.c.l., same basis gal 62 - —
tanks, same basis gal .38 —
West Coast creosote prices computed on a basis of 24c per gallon for straight oil and 20c per gallon for coaltar
Creosote, beechwood, chys., dms., f.o.b. works, dlvd. in Metropolitan area lb. 1.72 1.77
Hardwood, NF chys, dms, same basis lb. 1.42 1.47
Pinewood dms, incl. c.l., works. lb. .0611- —
dms, incl., l.c.l., works lb. .0684- —
dms, incl., l.c.l. ex whse, New York lb. .0795- —
tanks, works lb. .0511- —
Creosote oil (see Creosote coaltar).
Cresol, tech. 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. alld lb. .16½- —
non-ret dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .145 - —
Cresol, USP, 50% 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., same basis lb. .18 - —
non-ret. dms. l.c.l., same basis, lb. .19 - —
tanks, same basis lb. .16 - —
m-Cresol, 95-98% dms., c.l., works. lb. .60 - —
dms., l.c.l., works lb. .61 - —
m-p-Cresol, 5-95% 3°C., dms., c.l., frt. equald lb. .18 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .16 - —
2,97% 2°C., dms. c.l., frt. equald. lb. .22 - —
dms., l.c.l., same basis lb. .23 - —
tanks same basis lb. .20 - —
o-Cresol 30.5°C. m.p and over, ret., dms., c.l., frt equald lb. .17 - —
ret. dms., l.c.l., same basis lb. .18 - —
tanks, same basis lb. .15 - —
30°-30.49°C. m.p., dms., c.l., frt. equald lb. .16½- —
ret. dms., l.c.l., same basis lb. .17½- —
tanks same basis lb. .14½- —
Cresol, 29°-29.9°C. m.p., dms., c.l., frt equald lb. .16 - —
ret. dms., l.c.l., same basis lb. .17 - —
tanks, same basis lb. .14 - —
25°-28°C m.p., dms. c.l., frt. equald lb. .15 - —
ret. dms., l.c.l., same basis lb. .16 - —
tanks same basis lb. .13 - —
p-Cresol, 98%, dms. c.l., dlvd lb. .52 - —
dms., l.c.l., dlvd lb. .53 - —
tanks, dlvd lb. .49 - —
2,3-Cresotic acid dms., ton lots, works lb. .70 - —
dms., smaller lots, works lb. .72 - —
p-Cresyl methyl ether, cns lb. 1.80 2.05
Cresylic acid, coaltar, dom., meta-para content above 25%, resins and tricresyl phosphate grades, dms., c.l., t.l., frt equald gal. 1.35 - —
dms., l.c.l., same basis gal. 1.40 - —
tanks, same basis gal. 1.15 - —
metapara content 25% or less, dms., c.l., t.l., same basis gal. 1.20 - —
dms., l.c.l., same basis gal 1.25 - —
tanks, frt. equald gal 1.00 - —

Cresylic acid, coaltar, imp., meta-para content 25% or less, f.o.b. works, frt. equald, to competitive points, 50 dms. or more, gal. 1.03½- —
less than 50 dms., same basis gal. 1.05 - 1.15
tanks, same basis gal. 1.00 - —
Crotonaldehyde, 91-93%, dms., l.c.l, works lb. .25 - —
Crotonic acid, dms., 200 lbs. or more, l.c.l., dlvd lb. .36 - —
Cryolite, nat., indust., bgs., c.l., works 100 lbs.13.00 - —
bgs., l.c.l. works 100 lbs.14.25 - —
Cube root, powd., 5% rotenone, bgs., t.l., works lb. .21 - —
bgs. l.t.l., works lb .22 - —
Cubeb berries, NF, bgs lb 1.00 - —
Powd., cs. lb 1.15 - —
Cubeb oil, cns lb 9.00 -12.00
Cumene, dms., c.l., works lb. .12 - —
dms., l.c.l., works lb. .14 - —
tanks, works lb .11 - —
Cumin seed, Iranian, bgs. lb. .20 - —
Moroccan, bgs. lb. .36 - —
Turkish, bgs. lb. .19 - —
Cumin seed oil, bots., cns lb.15.50 -17.00
Cyanamide, fertilizer, mixing grade, 21% N, gran., bgs., Niagara Falls, Ont. contract ton.57.00 - —
Fertilizer, pulv., 21% N, bgs., works unit-ton 2.85 - —
Cyanamide, fertilizer, indust. grade, bgs, c.l., works ton 75.00 - —
bgs., l.c.l., works ton 96.00 - —
Indust grade 6-16 mesh, dms., c.l. works ton.120.00 - —
dms. l.c.l., works ton.140.00 - —
Cyclohexane, 99%, tech., dms., c.l., dlvd. E of Rockies gal 1.02 - —
dms. l.c.l. same basis gal. 1.10 - —
dms., c.l. dlvd W of Rockies gal. .77 - —
dms., l.c.l., same basis gal. .85 - —
tanks, works gal. .55 - —
98% tech. 40-dm. lots or more, f.o.b works gal. .56 - —
5-39 dms. same basis gal. .60 - —
tanks, same basis gal. .36 - —
Cyclohexanol, tech., dms., c.l., works, frt alld. E lb. .28¼- —
dms., l.c.l. works, same basis, lb. .29½- —
tanks, works, same basis lb. .26 - —
Cyclohexanone, tech., dms., c.l., works lb. .33½- —
dms., l.c.l. works lb. .34½- —
tanks, works lb. .31 - —
Cyclohexylamine, tech., dms., c.l., works lb. .49 - —
dms., l.c.l., works lb. .50 - —
tanks, works lb. .47 - —
Cypress oil, bots. lb. 5.30 - —

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2,4-D tech, bgs., dms., c.l., works, frt equald lb. .40 - —
bgs. dms. l.c.l., same basis lb. .45 .49
2,4-D butyl ester dms. c.l. works. lb. .43 - —
dms., l.c.l., same basis lb. .48 .52
tanks, same basis lb. .42 - —
2,4-D isopropyl ester, dms., c.l., works lb. .43 - —
dms., l.c.l., works lb. .48 .52
tanks, works lb. .42 - —
Dammar gum Batavia, A E. cs lb No stocks.
East India, Batu, bold, bgs lb. .15½ .18
nubs and chips, bgs lb. .10 - .11
black, bold bgs lb. .15½- .18
nubs and chips, bgs. lb. .12¼- .13½
unscraped, bgs. lb. .13 .14½
pale, chips, bgs. lb. .15 .17
pale, nubs, bgs. lb. 20¾ .24
Siam, cs lb. .31½ .34
Singapore, No. 1, bgs lb. .35 - .40
No 2, bgs. lb. .29 .32
dust, bgs. lb. .18 20
No 3, bgs. lb. No stocks.
Dandelion root, bls lb. .35 .40
DDD, tech., flake, grd., fib. dms., c.l., works lb. .45 - .47
fib dms., l.c.l., works lb. .46 - .48
DDT, flake or lump, bgs., c.l., dlvd lb. .23 - —
bgs., smaller lots, same basis. lb. .25 - —
fib dms., c.l., same basis lb. .24 - —
fib dms., smaller lots, same basis lb. .26 - —
Powdered DDT 1c. per pound higher.
DDVP (see Dimethyl dichlorovinyl phosphate)
i-Decanol, tech., dms., c.l., dlvd. E. lb. .43½- —
dms., l.c.l., dlvd. E. lb. .45½- —
tanks, dlvd E lb. .41 - —
Decyl alcohol, mixed isomers, dms., c.l., dlvd lb. .23½- —
dms., l.c.l., dlvd. lb. .25 - —
tanks, dlvd. lb .21 - —
Perfume grade, bots. lb 1.00 - 2.00
Decyl alcohol, normal (see i-Decanol)
Deertongue leaves, bls. lb .55 - .60
Defluorinated phosphate, feed grade, 14% P, paper bgs., c.l., t.l., Tupelo, Miss. ton.52.00 - —
18% P, paper bgs., c.l., Texas City ton.61.25 - —
paper bags, c.l., works, Miss. ton.66.00 - —
18% P, paper bgs., c.l., t.l. works, Houston, Tex. ton.66.35 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bg. c.l. prices.
Degras, common (15-17% free fatty acid), 400-lb dms lb. .12 - .14
Neutral (over 2% free fatty acid), 400-lb dms lb. 13 - —
Denatured alcohol, ethyl, CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E of Rockies, gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, dlvd. same basis gal. .53½ —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, proprietary solvent, dms., c.l., dlvd. E of Rockies gal. .72 —
dms., l.c.l., same basis gal. 77 .83
tanks, same basis gal. 56 —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Division.
Denatured alcohol, ethyl, SD1, dms., dlvd E of Rockies gal. .70½- —
dms., l.c.l. same basis gal. .75½- .81½
Denatured alcohol, ethyl, SD1, tanks, same basis gal. .54½- —
SD2B, dms. c.l. dlvd. E of Rockies gal. .69 —
dms., l.c.l., same basis gal. .74 .80
tanks, same basis gal. .53 —
SD3A, dms., c.l., dlvd. E of Rockies gal. .68 —
dms. l.c.l same basis gal. 73 .79
tanks, same basis gal. .52 - —

Denatured alcohol, ethyl, SD23A, dms., c.l., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
Denatured alcohol, ethyl, SD23H, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
Denatured alcohol, SD29, dms., c.l., dlvd. E. of Rockies gal. .69½- —
dms., l.c.l., same basis gal. .74½- .80½
tanks, same basis gal. .53½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .68 - —
dms., l.c.l., same basis gal. .73 - .79
tanks, same basis gal. .52 - —
Denatured alcohol, ethyl, SD-35A, dms., c.l., dlvd. E. of Rockies gal. .71 - —
dms., l.c.l., same basis gal. .76 - .82
tanks, same basis gal. .55 - —
Denatured alcohol, ethyl, SD-40, dms., dlvd. E. of Rockies gal. .70½- —
dms., l.c.l., same basis gal. .75½- .81½
tanks, same basis gal. .54½- —
For anhyd. alcohol on above formulas prices are 7c. per gal. higher.
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon, and Washington where a 5c. differential on tankcars is maintained.
d-Desoxyephedrine hydrochloride, dms lb..15.00 -17.00
dl-Desoxyephedrine hydrochloride, dms lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l., 100 lbs. 9.19 - —
100 lbs. 9.34 - —
canary dark, paper bgs., c.l. 100 lbs. 9.03 - —
paper bgs., l.c.l. 100 lbs. 9.18 - —
indust. grade, 6-16 mesh, canary light, paper bgs., c.l. 100 lbs. 8.93 - —
paper bgs., l.c.l. 100 lbs. 9.08 - —
white paper bgs., c.l. 100 lbs. 8.77 - —
paper bgs., l.c.l. 100 lbs. 8.92 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs higher
Dextrose, anhyd., comi., bgs., c.l. 100 lbs. 8.65 - —
bgs. l.c.l. 100 lbs. 8.80 - —
Anhyd., special, aluminum foil lined fib. dms., 200-lb. dms 100 lbs.14.70 - —
100-lb. dms. 100 lbs.15.20 - —
Hydrated, comi., bgs., c.l., ex whse 100 lbs. 7.45 - —
bgs. c.l., ex whse 100 lbs. 7.60 - —
USP dms. lb. .19¾- —
Diacetone alcohol, acetone-free, dms., c.l., dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks dlvd lb. .13 - —
Tech., dms. c.l., dlvd. lb. .15 - —
dms. l.c.l., dlvd. lb. .16½- —
tanks dlvd lb. .12½- —
Diacetyl, flavor grade, bots. lb. 3.30 - 4.30
Di-sec-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
dms., l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Diallylamine, dms., c.l., dlvd. lb. .98½- —
dms. l.c.l., dlvd. lb. 1.00 - —
tanks, dlvd. lb. .96 - —
o-Dianisidine, dry, tech., fib. dms. lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works. lb. .93 - —
dms., l.c.l., same basis lb. .94 - —
tanks, same basis lb. .91 - —
Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
2,6-Di-tert-butyl-p-cresol, feed grade, c.l., t.l., dms., dlvd. lb. .65 - —
t.t.l., dms., same basis lb. .68 - —
Food grade, c.l., t.l., dms., dlvd. lb. .65 - —
dms., t.t.l., same basis lb. .68 - 1.10
Tech., dms., c.l., t.l., dlvd. lb. .57 - —
dms., l.c.l., same basis lb. .60 - —
tanks, same basis lb. .54 - —
Dibutyl fumarate, dms., c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., t.t.l., dlvd. E lb. .33 - —
tanks, dlvd E lb. .29 - —
Dibutyl maleate, dms., c.l., t.l., dlvd. E lb. .31½- —
dms., l.c.l., t.t.l., dlvd. E lb. .33 - —
tanks, dlvd. E lb. .29 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .31½- —
dms., l.c.l., same basis lb. .33 - —
tankcars, tanktrucks, 2,000 gals., same basis lb. .29 - —
tanktrucks, 1,000-1,999 gals., same basis lb. .29 - —
Dibutyl sebacate, dms., c.l., works. lb. .67½- —
dms., l.c.l., works lb. .68½- —
tanks, works lb. .65½- —
Dibutyl tartrate, dms., works, frt. alld lb. .65½- —
Dibutylamine, dms., c.l., dlvd lb. .55½- —
dms., l.c.l., same basis lb. .57 - —
tanks, same basis lb. .53 - —
Dicapryl phthalate, dms., c.l., dlvd. lb. .28½- —
dms., l.c.l., dlvd. lb. .30 - —
tanks, dlvd. lb. .26 - —
Dicapryl sebacate, dms., c.l., works. lb. .63 - —
dms., l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
3,4-Dichloroaniline, tech., solid, tanks, frt. alld lb. .73 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¾- —
dms., l.c.l., same basis lb. .13¾- —
tanks, same basis lb. .11 - —
p-Dichlorobenzene, dms., c.l., f.o.b., works, frt. alld. E lb. .12 - —
dms. 2,000 lbs. or more same basis lb. .14½- —
1,4-Dichlorobutane, dms., c.l., or t.l., works lb. .33½- —
dms., l.c.l., or t.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
2,2-Dichloroethyl ether, dms., c.l., t.l., dlvd. E lb. .15½- —
dms., l.c.l., t.t.l., same basis lb. .17 - —
tanks, same basis lb. .13 - —
Dichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l., same basis lb. .75 - —
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
dms., l.c.l., works lb. .06 - —
tanks works lb. 03 - —
Dichlorophenoxyacetic acid (see 2,4-D).
Dicyclohexylamine dms., c.l., works. lb. .54 - —
dms., l.c.l., works lb. .55 - —
tanks works lb. .52 - —
Dicyclohexyl phthalate, gran., fib. dms. c.l., works, frt. alld. lb. .47½- —
fib. dms., l.c.l., same basis lb. .49 - —

Dicyclopentadiene, dms., c.l., f.o.b. works lb. .14½- —
dms., l.c.l., same basis lb. .14¾- —
tanks, same basis lb. .12 - —
Didecyl phthalate, dms., c.l., works. lb. .28½- —
dms., l.c.l., same basis lb. .30 - —
tankcars, tanktrucks, 2,000 gals. lb. .26 - —
tanktrucks, 1,000-1,999 gals, same basis lb. .26½- —
Dieldrin, dms., c.l., dlvd. lb. 1.85 - —
dms., l.c.l. dlvd. lb. 1.90 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .27 - —
dms., l.c.l., same basis lb. .28½- —
tanks, same basis lb. .24½- —
Diethanolamine lauryl sulfate, dms., c.l., frt. alld lb. .27½- —
dms., l.t.l. frt. alld. lb. .28½- —
tanks, frt. alld. lb. .26½- —
Diethyl barbituric acid (see Barbital).
Diethyl carbonate, dms., c.l., t.o.b. works lb. .47½- —
dms., l.c.l., same basis lb. .48½- —
tanks, same basis lb. .45 - —
Diethyl ethanolamines, dms., c.l., dlvd lb. .69½- —
dms., l.c.l., dlvd. lb. .71 - —
tanks, dlvd lb. .67 - —
Diethyl oxalate, dms., c.l., f.o.b. works lb. .42½- —
dms., l.c.l., same basis lb. .43½- —
tanks, same basis lb. .40 - —
Diethyl phthalate, dms., c.l., dlvd. lb. .27¼- —
dms., l.c.l., dlvd. lb. .29 - —
tanktrucks, 1,000-1,999 gals, same basis lb. .26½- —
tankcars, tanktrucks, 2,000-lb. lots, same basis lb. .26 - —
Diethyl sulfate, dms., c.l., works lb. .19½- —
dms., l.c.l., works lb. .20¼- —
tanks, works lb. .17½- —
Diethyl thiourea, dms., c.l., t.l., works lb. .58 - —
dms., l.c.l., same basis lb. .59 - —
Diethyl toluamide, 90-95% meta isomer dms., c.l., t.l., works lb. 2.30 - —
5-44 dm. lots, works lb 2.35 - —
1-4 dm lots, works lb 2.40 - —
N,N-Diethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
Diethylamine, dms., c.l., dlvd E lb. .52 - —
dms., l.c.l., same basis lb. .53½- —
tanks, same basis lb. .49½- —
N,N-Diethylaniline dms., c.l., frt. alld lb. .57 - —
dms., l.c.l., same basis lb. .58 - —
tanks, same basis lb. .55 - —
Diethylbenzene, 380 lb. dms., c.l., t.l., frt. alld., Zone 1 lb. .17½- —
f.o.b., Zone 2 lb. .18½- —
dms., l.c.l., c.l., f.o.b., Zone 1 lb. .19½- —
f.o.b. warehouse points, Zone 2 lb. .20½- —
Diethylbenzene, tankcars, Zone 1 lb. .15 - —
Zone 2 lb. .16 - —
Zone 1 is East of the Rockies. Zone 2, West of the Rockies.
Di-2-ethylhexyl adipate (see Di-iso-octyl adipate).
Di-2-ethylhexyl phthalate (see Di-iso-octyl phthalate).
Diethylene glycol dms, c.l., dlvd E. lb. .17¾- —
dms., l.c.l., same basis lb. .19¼- —
tanks same basis lb. .15¼- —
Diethylene glycol diethyl ether, dms., c.l., works lb. .51½- —
dms. l.c.l. works lb. .52¼- —
Diethylene glycol monobutyl ether, c.l., dms., works lb. .30¾- —
dms. l.c.l., works lb. .32¼- —
tanks dlvd E lb. .28¼- —
Diethylene glycol monobutyl ether acetate, dms., c.l., works. lb. .30¾- —
dms., l.c.l., works lb. .31½- —
tanks, dlvd E lb. .28¾- —
Diethylene glycol monoethyl ether, dms., c.l., dlvd lb. .22½- —
dms., l.c.l., dlvd. lb. .24 - —
tanks, dlvd E lb. .20 - —
Diethylene glycol monoethyl ether acetate, dms., c.l., works. lb. .27¼- —
dms., l.c.l., works lb. .28 - —
tanks, works lb. .25¼- —
Diethylene glycol monomethyl ether, dms., c.l., dlvd lb. .21 - —
dms., l.c.l., dlvd. lb. .22½- —
tanks, dlvd E lb. .18½- —
Diethylenetriamine, dms., c.l., dlvd. E lb. .44 - —
dms., l.c.l., dlvd. E. lb. .45½- —
tanks, dlvd. E. lb. .41½- —
Diethylstilbesterol, USP, bots., 10-kilo lots kilo 100.00 -147.50
bots, 1-kilo lot kilo 110.00 -152.50
Digitalis leaves USP, dom., dms lb. 1.25 - —
Digitoxin USP bots. gram 4.20 - —
Diglycol laurate, dms., ton lots lb. .32½- —
Diglycol stearate, dms., t.l. lb. .26 - —
Diglycolic acid bgs, c.l., t.l., works. lb. .15½- —
bgs., l.c.l., works lb. .16 - —
Dihexyl sebacate dms., c.l., works. lb. .66 - —
dms., l.c.l., works lb. .67 - —
tanks, works lb. .64 - —
Dihydrazine sulfate, dms., works lb. 1.10 - 1.25
Dihydrostreptomycin sulfate, bulk. gram .03 - —
1,2-Dihydroxy anthraquinone, dms., works lb. 3.45 - —
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms lb. 2.55 - —
Tech., dms., 20,000 lbs or more lb. 1.11 - —
dms., 1,050 lbs to 20,000 lbs. lb. 1.13 - —
dms. 150 lbs to 1,050 lbs lb. 1.15 - —
Di-isobutyl ketone, dms., c.l., dlvd. lb. .17 - —
dms., l.c.l., dlvd. lb. .18½- —
tanks dlvd lb. .14½- —
Di-isobutyl phthalate, dms., c.l., dlvd. E. lb. .31½- —
dms., l.c.l., same basis lb. .32½- —
tanks, same basis lb. .29 - —
Di-isobutylene dms. c.l., dlvd. E lb. .10 - —
dms., l.c.l., dlvd. E lb. .11½- —
tanks, dlvd E lb. .08 - —
Di-iso-octyl phthalate, dms., c.l., works lb. .29 - —
dms., l.c.l., same basis lb. .30½- —
tanktrucks, 1,000-1,999 gals., works lb. .27 - —
tankcars, tanktrucks, 2,000 gals., works lb. .26½- —
Di-iso-octyl sebacate, dms., c.l., works lb. .62 - —
dms., l.c.l., works lb. .61¼- —
tanks, works lb. .60 - —
Di-isopropanolamine, dms., c.l., dlvd. lb. .23¼- —
dms., l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .20¾- —
Di-isopropylamine dms., c.l., dlvd. E. of Rockies lb. .50½- —
dms., l.c.l., same basis lb. .52 - —
tanks, same basis lb. .48 - —
Dillweed oil, dom., bots., dms lb. 5.25 - —
Dimethyl anthranilate, cns. lb 4.15 - —
Dimethyl dichlorovinyl phosphate, 55-gal dms., dlvd lb. 3.50 - —
Dimethyl ethanolamines, anhyd., dms., c.l., dlvd lb. .78 - —
dms., l.c.l., dlvd. lb. .79½- —
tanks, dlvd. lb. .75½- —
70% dms. c.l., dlvd., 100% basis contained amines lb. .78 - —
dms., l.c.l., dlvd., 100% basis lb. .79½- —
tanks, dlvd., 100% basis lb. .75½- —

Dimethyl hydroquinone, dms. ....lb. 1.90 - 2.20
Dimethyl phthalate, dms., c.l., works..lb. .29¼- —
dms., l.c.l., works .....lb. .31¼- —
tanktrucks, 1,000-1,999 gals., same basis..lb. .27¼- —
tankcars, tanktrucks, 2,000 gals., same basis..lb. .27¼- —
Dimethyl sebacate, dms., c.l., works. lb. 1.31 - —
dms., l.c.l., works.....lb. 1.30 - —
tanks, works .....lb. 1.23 - —
Dimethyl sulfate, ret. dms., c.l., works..lb. .17½- —
ret. dms., l.c.l., works.....lb. .18½- —
tanks, works.....lb. .16½- —
Dimethyl sulfide, dms., c.l., works. lb. .18 - —
dms., l.c.l., works.....lb. .18½- —
tanks, works.....lb. .15 - —
Dimethylamine, 25% soln., dms., c.l., frt. equald, 100% basis lb. .38 - —
dms., l.c.l., frt. equald, 100% basis lb. .38½- —
tanks, frt. equald, 100% basis, lb. .28 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .33 - —
dms., l.c.l., frt. equald, 100% basis..lb. .35½- —
lb. .28 - —
N,N-Dimethylaniline, dms., c.l., frt. alld..lb. .29 - —
dms., l.c.l., same basis.....lb. .29 - —
tanks, same basis .....lb. .26 - —
N,N-Dimethylformamide, dms., c.l., t.l., works..lb. .32½- —
dms., l.c.l., works .....lb. .33 - .34
tanks, works .....lb. .30 - —
2,4-Dinitroaniline, dms., frt. alld lb. .75 - —
Dinitroaniline orange toner, CP, bbls., dlvd. E. of Rockies. lb. 1.61 - —
Dinitroaniline orange toner prices 1c higher W of Rockies.
m-Dinitrobenzene, 89°C., dms. lb. .26 - —
2,4-Dinitrochlorobenzene, crystallizing at 46½°C., dms., c.l., frt. alld. E..lb. .17¼- —
dms., l.c.l., frt. alld. E. .....lb. .17¾- —
tanks, frt. alld. E. .....lb. .17 - —
2,4-Dinitrophenol bbls. .....lb. .41 - —
2,4-Dinitrotoluene, oil, dms. .....lb. .11 - —
Refd., 63°C. dms. .....lb. .23 - —
Dioctyl adipate, dms., c.l., works..lb. .42½- —
dms., l.c.l., works .....lb. .43½- —
tanks, works .....lb. .40 - —
Dioctyl phthalate, dms., c.l., frt. alld lb. .28½- —
dms., l.c.l., frt. alld.....lb. .30 - —
tanktrucks, 1,000-1,999 gals., same basis..lb. .26½- —
tankcars, tanktrucks, 2,000 gals., same basis..lb. .26 - —
Dioctyl sebacate, dms., c.l., works. lb. .61¼- —
dms., l.c.l., works .....lb. .62¼- —
dms., l.c.l., works.....lb. .62¼ —
tanks, works, dlvd. .....lb. .59¼- —
1,4-Dioxane, dms., c.l., dlvd. E..lb. .31½- —
dms., l.c.l., dlvd. E.....lb. .33 - —
tanks, dlvd E. .....lb. .29 - —
Prices in the west are 2c. per lb. higher.
Dipentaerythritol, bgs., c.l., t.l., dlvd. E..lb. .34 - —
bgs., l.c.l., t.t.l., dlvd. E .....lb. .35 - —
Dipentene, dest.-dist., dms., c.l., works gal. .58 - —
dms., l.c.l., works .....lb. .62 - —
dms., l.c.l., ex whse. .....gal. .78 - —
tankcars, works .....gal. .41 - —
Steam dist., dms., c.l., works, South gal. .72 - —
dms., l.c.l., dlvd. New York gal. .91 - —
tanks, works, South .....lb. .55 - —
Dip oil (see Tar acid oil).
Diphenolic acid, 1,000-lb. or more, bgs., works lb. .73 - —
Diphenolic polyether acids, 1,000-lb. or more, bgs., works lb. 1.00 - —
Diphenyl, bgs., c.l., t.l., works....lb. .16¾- —
bgs., l.c.l., works .....lb. .18½- —
tanks, works .....lb. .15¾- —
Diphenyl oxide perfume grade, cns. lb. .55 - .70
Diphenyl phthalate, dms., c.l., works. lb. .52 - —
dms., l.c.l., works.....lb. .54 - —
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald. lb. .32 —
bgs., l.c.l., same basis.....lb. .34 —
Refd., fused, tanks, same basis.lb. .29 - —
Refd., diphenylamine in dms., ½c. per lb higher.
Diphenylguanadine, bgs., dms., ton lots, frt. alld..lb. .51 - —
bgs., smaller lots, frt. alld.....lb. .52 - —
Diphenylhydantoin-sodium, USP, dms lb. 5.00 - 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17 - —
dms., l.c.l., frt. alld. .....lb. .18½- —
tanks, frt. alld. .....lb. .14¼- —
Dipropylene glycol methyl ether, dms., c.l., dlvd. E lb. .30 - —
dms., l.c.l., same basis.....lb. .31½- —
tanks, same basis .....lb. .18½- —
Dithiodibenzoic acid, dms., 1,000-lb. lots, works..lb. 1.80 - —
Di-o-tolylguanidine, dms., ton lots, frt. alld. lb. .71 - —
dms., smaller lots, frt. alld....lb. .72 - —
Di-o-tolylthiourea, tech., solid, dms., c.l., t.l., frt. alld lb. .55 - —
Divinylbenzene, 20-25%, dms., c.l., works, frt. equald lb. .20 - —
dms., l.c.l., same basis .....lb. .21 - —
tanks, same basis .....lb. .19 - —
50-60%, dms., c.l., works, 100% basis lb. 1.00 - —
dms., l.c.l., works, 100% basis, lb. 1.05 - —
tanks, same basis .....lb. .90 - —
Dodecenyl succinic anhydride, dms., c.l., t.l., dlvd. E lb. .75 - —
dms. l.c.l., t.t.l., same basis lb. .76 - —
Dodecylbenzene, dms., c.l., t.o.b., works, frt equald lb. .134 - —
dms., l.c.l. same basis .....lb. .144 - —
tanks, same basis .....lb. .11½- —
Dodecylphenol, c.l., frt. alld.....lb. .22½- —
dms., l.c.l., same basis.....lb. .23½- —
tanks, same basis. .....lb. .20 - —
Dodecylphenol prices on shipments to Western States are 2c. per pound higher.
Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd.:
Blue, FD&C, No. 1 .....lb.15.65 -17.60
No. 2 .....lb.15.65 -17.60
Green, FD&C, No. 1.....lb.15.65 -17.60
No. 2 .....lb.19.60 -22.85
No. 3 .....lb.31.30 -35.20
Red, FD&C, No. 2.....lb. 3.30 - 4.10
No. 3 .....lb.19.60 -22.95
No. 4 .....lb 5.55 7.50
Dyes, coaltar, certified colors for drugs and cosmetics 500-lb. and 1-lb. lots, dlvd:
Violet, FD&C, No. 1 .....lb.15.65 -17.60
Yellow, FD&C, No. 1 .....lb. 9.15 -11.05
No. 5 .....lb. 3.30 4.10
No. 6 .....lb 3.30 4.10
Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots, dlvd.:
Black D&C, No 1 .....lb.10.50 -10.95
Brown, D&C, No. 1 .....lb.15.65 -16.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200-lb. and 1-lb. lots, dlvd.:
Green, D&C, No. 5 .....lb.15.65 -16.10
No. 6 .....lb.15.65 -16.10
No. 7 .....lb.14.35 -14.80
Orange, D&C, No. 3 .....lb.10.50 -10.95
No. 4 .....lb.19.60 -20.05
No. 5 .....lb. 3.80 4.25
Red, D&C, No. 17 .....lb.10.50 -10.95
No. 18 .....lb.23.60 -24.00
No. 19 .....lb.15.00 -15.45
No. 21 .....lb. 3.90 4.35
No. 22 .....lb.10.50 -10.95
No. 23 .....lb.24.15 -24.65
No. 33 .....lb.17.00 -17.45
Violet, D&C, No. 2 .....lb.15.65 -16.10
Yellow, D&C, No. 7 .....lb.10.50 -10.95
No. 8 .....lb.10.50 -10.95
No. 10 .....lb.13.05 -13.50
No. 11 .....lb.13.05 -13.50
Dyes, coaltar, certified colors for drugs and cosmetics, external use, 500-lb. and 1-lb. lots, dlvd.:
Blue, Ext., D&C, No. 1.....lb.15.65 -16.10
Green, Ext., D&C, No. 1.....lb.15.65 -16.10
Red, Ext., D&C, No. 1.....lb.13.05 -13.50
Yellow, Ext, D&C, No. 1.....lb.10.50 10.95
Dyes, coaltar for general use in cloth dyeing (numbers are those of the Color Index scale or prototype), contract dlvd. No.
11110 Brilliant scarlet BN.....lb. 1.79 - —
13390 Fast blue SR.....lb. 1.43 - —
14025 Yellow 2G.....lb. 1.26 - —
14030 Orange R, extra, conc. ..lb. 1.64 - —
14645 Chrome black T.....lb. .77 - —
14720 Rubine XX, conc. .....lb. 1.59 - —
15510 Orange Y, extra conc. ..lb. .83 - —
15575 Orange RR.....lb. .99 - —
15620 Fast Red A, conc.....lb. 1.61 - —
15705 Chrome blue black R, conc. lb. 1.12 - —
16150 Scarlet 2RL .....lb. 1.22 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale of prototype), contract, dlvd. No.
16255 Brilliant scarlet 3RN, conc. lb. 1.25 - —
16230 Fast light, orange 2G....lb. 1.39 - —
17590 Brown PG .....lb. 3.00 - —
18050 Phloxine 2G .....lb. 1.05 - —
18055 Fuchsine 6B .....lb. 1.55 - —
18965 Fast yellow 2G .....lb. 2.32 - —
19140 Yellow XX .....lb. 2.48 - —
19555 Yellow NN, conc. .....lb. 3.67 - —
20170 Brown Y .....lb. 1.33 - —
20470 Blue black, extra, conc lb 1.44 - —
21010 Brown, RX, conc.....lb. 1.42 - —
22240 Scarlet B .....lb. 2.81 - —
22310 Red FC .....lb. 1.57 - —
22311 Brown MCW .....lb. 1.47 - —
22610 Blue 2B, extra conc. ....lb. 1.53 - —
23500 Red 4BX, conc. .....lb. 1.80 - —
24410 Sky blue FF, extra, conc.lb. 1.95 - —
24895 Brilliant yellow, conc. ..lb. 3.27 - —
26360 Navy blue 3R, conc. ....lb. 1.84 - —
26695 Black F, conc. .....lb. 2.30 - —
26900 Milling Red 3R, conc ....lb. 2.24 - —
27075 Neutral black 2B, conc lb 2.75 - —
27720 Gray L .....lb. 2.18 - —
29185 Fast scarlet 4BNC .....lb 2.23 - —
30015 Diazo black VJ conc .....lb 2.49 - —
30045 Yellow brown K, extra..lb. 1.32 - —
30235 Black EB, 200% .....lb. 1.33 - —
30295 Green BY, conc. .....lb. 1.07 - —
35660 Brown B .....lb. 2.89 - —
37565 Naphthol SWF .....lb. 1.85 - —
40000 Yellow 2G .....lb. 1.44 - —

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale of prototype), contract, dlvd. No.
41000 Yellow OX .....lb 2.45 - —
42000 Green V, crystals .....lb 2.73 - —
42040 Brilliant green G crystals.lb 3.62 - —
42090 Blue EG .....lb 1.85 - —
42100 Milling green 6B, conc. lb 4.78 - —
42640 Violet 4BXN .....lb 2.43 - —
43830 Brilliant blue, BBG.....lb 2.44 - —
44045 Blue B, extra conc. .....lb 3.61 - —
45170 Red BX .....lb 4.76 - —
50415 Nigrosine SSJ .....lb 1.03 - —
52015 Blue GXX .....lb 2.33 - —
58005 Alizarin red SC .....lb 3.64 - —
59700 Golden orange GFD, single paste lb 2.70 - —
59710 Flaming orange 6RD double powder lb 4.90 - —
59800 Dark blue BO, single paste. lb 2.28 - —
59825 Jade green NC supra, double paste lb. 1.50 - —
61570 Alizarin green CG extra lb 3.81 - —
63010 Alizarin blue SAPG lb 3.90 - —
63615 Alizarin blue black B lb 3.26 - —
69825 Blue BLFD double paste lb. 2.76 - —
70800 Brown BR single paste lb 2.03 - —
Dyes, coaltar oil-soluble, 100-lb. drums, dlvd. No
12140 Oil scarlet BL .....lb 1.87 - —
12055 Oil orange 7078 V .....lb 1.38 - —
26120 Oil red N 4700 .....lb 1.94 - —
42535B Methyl violet base .....lb 1.88 - —
44045B Victoria blue base ....lb 4.06 - —
50415B Oil black 8603 .....lb. .80 - —

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D.D.T.— Dichloro Diphenyl Trichloroethane

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Dyes, coaltar, oil-soluble, 100 lb. drums, dlvd. No. 61565 Alizarin cyanine green base, lb. 6.13 - —
Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd., Black RB. lb. 3.89 - —
Spirit brown GN ..... lb. 5.30 - —
Spirit orange R conc. ..... lb. 5.87 - —
Spirit red B conc. ..... lb. 6.41 - —
Pr 517 Spirit yellow 2R conc lb 4.62 - —
Pr 554 Spirit blue THN ..... lb. 5.06 - —

E

Echinacea root, bls. ..... lb 1.25 - —
Elm bark grinding, bls. ..... lb 30 - .32
Powd., bbls., ½s ..... lb. .60 - —
Select, bundles ..... lb. 75 - —
Emetine hydrochloride, USP bots. oz.48.40 - —
Endrin tech, dms., 100-lbs or more, 100% basis, dlvd lb. 2.77 - —
Eosin red toner bbls, works lb 1.95 - —
Ephedrine syn., USP, anhyd., bots. 100-oz lots oz. .98 - 1.00
hydrous bots, 100-oz lots, oz. .93 - —
Ephedrine hydrochloride NF dms., 100-oz., f.o.b. works oz. .75 - —
Ephedrine sulfate USP, cryst. dms., 100-oz f.o.b works oz. .73 - —
USP powd., dms., 100-oz. same basis oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .29½- —
dms., l.c.l., dlvd. ..... lb. .31 - —
tanks, dlvd. ..... lb. .27 - —
l-Epinephrine base, syn. USP bots., 100 gram lots gram. .58 - —
Epsom salt (see Magnesium sulfate).
Erigeron oil cns ..... lb.11.00 - —
Ergot, NF, dms., tin-lined ..... lb. 2.00 - 2.50
Eserine salicylate bots. ..... oz.44.00 - —
Eserine sulfate bots. ..... oz.86.00 - —
Ester gum gum-rosin type, dms., c.l. dlvd. Ill., Md. Ky., E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .18½- —
Wood-rosin type, dms. c.l. same basis lb. .18½- —
Ether (see specific product)
Ethyl acetate nat., ferment. 85-88%, dms., c.l. dlvd lb. .15 - —
dms., l.c.l., dlvd. lb. .16½- —
tanks dlvd lb .12½- —
85-98% dms. c.l., dlvd. lb. .15¼ - —
dms., l.c.l., dlvd. lb .16¾ - —
tanks, dlvd lb. .12¾- —
Ethyl acetate nat., terment, 99%, dms., c.l. dlvd lb. .15½- —
dms., l.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. .13 - —
syn., 85-88% dms., c.l., dlvd lb. .15 - —
dms. l.c.l., dlvd. lb. .16½- —
tanks dlvd lb. .12½- —
Ethyl acetate syn. 95-98%, dms., c.l., dlvd lb. .15¼- —
dms. l.c.l., dlvd ..... lb. .16¾ - —
tanks dlvd ..... lb. .12¾- —
99%, dms. c.l. dlvd. ..... lb. .15½- —
dms., l.c.l., dlvd. ..... lb. .17 - —
tanks dlvd ..... lb. .13 - —
Ethyl acetoacetate, dms., c.l., dlvd. lb. 58½- —
dms. l.c.l., dlvd. ..... lb. .60 - —
tanks, dlvd ..... lb. .56 - —
Ethyl acrylate dms., c.l., t.l., dlvd. lb. .34¼- —
dms., l.t.l., dlvd. ..... lb. .35¼- —
tanks, dlvd. ..... lbm. .32¼- —
Ethyl alcohol, 190 pf., USP, tax paid dms. c.l., dlvd E of Rockies gal.20.63 - —
dms. l.c.l. same basis gal..20.73 -20.84
Ethyl alcohol, 190 pf., USP, tax-free, dms. c.l. dlvd E of Rockies gal. 68 - —
dms., l.c.l., same basis gal. 78 - .89
tanks, same basis gal .52 - —
Ethyl alcohol, absolute 200 pf., tax paid, dms. dlvd E. of Rockies gal.21 75 - —
dms., l.c.l., same basis gal.21.85 -21.96
tanks same basis gal 21 59 - —
Ethyl alcohol denatured (see Denatured alcohol, ethyl).
Ethyl aminobenzoate USP (see Benzocaine).
Ethyl amyl ketone dms. c.l., dlvd. lb. .20 - —
dms. l.c.l. same basis .... lb. .21½ - —
tanks same basis ..... lb. 17½ - —
Ethyl benzoate bots. ..... lb. .75 - 1.00
Ethyl bromide tech., 98%, dms., c.l., frt. alld. E lb. 43 - —
dms. l.c.l. frt. alld E lb. 45 - —
tanks, frt. alld. E ..... lb. .40 - —
2-Ethyl butyl alcohol, dms., c.l., works lb. .30 - —
dms., l.c.l., works ..... lb. .30¾- —
tanks, works ..... lb. .28 - —
Ethyl butyl ketone dms. c.l., t.l., works lb. .36 - —
dms l.c.l., t.l. works lb. .36¾- —
tanks works lb. .34 - —
Ethyl butyrate dms. works lb. .85 - 1.00
Ethyl carbamate (see Urethane)
Ethyl cellulose, vis. 5 cps. bgs., 5,000 lb lots or more, frt. alld E lb. .73 - —
bgs. smaller lots frt. alld E lb. .75 - —
Ethyl cellulose, vis. 10, 20, 50, 100, 150 cps., bgs., 5,000-lb. lots or more, frt. alld. E lb. .68 - —
bgs. smaller lots. frt. alld E. lb. .70 - —
Ethyl chloride tech., cyls., works. lb .20 - .22
dms., works ..... lb .18 - .20
tanks, works ..... lb .16 - —
Ethyl cinnamate, cns ..... lb. 3.15 - 3.35
Ethyl ethanolamies, mixed, dms., c.l., dlvd E lb. 43½ - —
dms. l.c.l. dlvd E lb. 44½- —
tanks dlvd E lb. 41½- —
Ethyl ether, absolute ACS, dms lb. .27 - —
Anesthesia, USP dealers, 1-lb. cns lb. 1.01 - —
½ lb cns ..... lb. 1.09 - —
¼ lb cns. ..... lb. 1.21 - —
Indust. dms. c.l. dlvd. ..... lb. .13½- —
dms., l.c.l., dlvd E ..... lb. .15 - —
tanks dlvd E lb .11 - —
2-Ethyl hexoic acid dms., c.l., t.l., dlvd. E lb. .37 - —
dms. l.c.l., t.l. dlvd. E lb. .38½- —
tanks, dlvd E lb. .34½ - —
2-Ethyl hexoic acid 1c higher W. of Rockies.
2-Ethylhexyl acrylate, dms., c.l., t.l., straight or mixed frt. alld. E lb. .39½- —
dms., l.t.l., same basis ..... lb. .40½- —
tanks, same basis lb. .37 - —
Prices of 2-ethylhexyl acrylate are 1½c. per lb. higher in Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.
2-Ethylhexyl alcohol, dms. c.l., dlvd. lb. 23¾- —
dms. l.c.l, dlvd ..... lb. 25¼- —
tanks, dlvd lb 21¼- —
Ethyl iodide chvs, works lb. 3.30 - —
Ethyl methacrylate dms., c.l., frt. equald lb .53 - —
dms. l.t.l., frt equald lb 52½- —
tanks, frt. equald ..... lb 50 - —
Ethyl morphine hydrochloride, USP, bots oz.11.85 - —
Ethyl oenanthate, dms. ..... lb. 1.05 - 1.30
Ethyl oxalate (see Diethyl oxalate).
Ethyl silicate, dist. (see Tetraethyl orthosilicate).
Ethyl silicate 40% available SiO_2, dms., c.l., dlvd lb. .44½- —
dms., l.c.l., dlvd. ..... lb. .46 - —
tanks, dlvd ..... lb. .42 - —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.04 - —
N-Ethyl-m-toluidine, tech., liq., tanks, frt. alld lb. .83 - —
N-Ethyl-o-toluidine, bbls. ..... lb. .88 - —
Ethylamine (see Mono-, Di-, or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .57 - —
dms., l.c.l., frt. alld. ..... lb. .58 - —
tanks, frt. alld ..... lb. .55 - —
Ethylbenzene, 99% dms., c.l., t.l., frt. equald. lb. .14 - —
dms., l.c.l., same basis ..... lb. .16 - —
tanks, same basis ..... lb. .11½- —
Ethylene, contract refy gate lb. .0475- .0525
Ethylene dibromide dms., c.l., frt. equald lb. .30½- —
dms., l.c.l. frt. equald ..... lb. .31½- —
tanks, frt. equald ..... lb. .28½- —
Ethylene dichloride dms., c.l., dlvd. lb .11½- —
dms., l.c.l., same basis ..... lb. .13 - —
tanks, same basis ..... lb. .09 - —
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.
Ethylene glycol, indust., dms., c.l., dlvd E lb. .16 - —
dms., l.c.l., same basis lb. .17½- —
tanks, same basis lb. .13½- —
Ethylene glycol monobutyl ether, dms. c.l., dlvd E lb. .22 - —
dms., l.c.l., dlvd E ..... lb. .23½- —
tanks, dlvd E lb. .19½- —
Ethylene glycol monoethyl ether, dms. c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E ..... lb. .22½- —
tanks, dlvd E lb. .18½- —
Ethylene glycol monoethyl ether acetate, dms., c.l., dlvd. E lb. .19½- —
dms., l.c.l., dlvd E ..... lb. .20½- —
tanks, dlvd E ..... lb. .17 - —
Ethylene glycol monomethyl ether, dms., c.l., dlvd. E lb. .21 - —
dms., l.c.l., dlvd. E ..... lb. .22½- —
tanks, dlvd E ..... lb. .18½- —
Ethylene glycol monomethyl ether acetate, dms., c.l., dlvd. E lb. .29 - —
dms., l.c.l., dlvd. E ..... lb. .29¾- —
tanks, dlvd E lb. .27 - —
Ethylene glycol monostearate, flake, 150-lb. ctn lb. .33 - —
Ethylene oxide, dms. c.l. dlvd E. lb. .21½- —
dms., l.c.l., dlvd. E ..... lb. .24½- —
tanks, dlvd E. ..... lb. .15½- —
Ethylene trichloride (see Trichloroethylene)
Ethylenediamine 85-88%, dms., c.l., dlvd E., 100% basis lb. .42 - —
dms. l.c.l. dlvd E. 100% basis. lb. .43 - —
tanks dlvd E., 100% basis lb. .40 - —
Ethyl vanillin, 100-lb. fib. dms., 500-lb. 6.75 - —
less than 500-lb. ..... lb. 7.40 - —
Eucalyptol, USP, cns., dms ..... lb. .85 - 1.40
Eucalyptus oil NF rectified, 70-75%, dms. lb. .46 - —
NF rectified, 80-85%, dms. lb .53 - .60
Eugenol, tech., dms. ..... lb. 1.30 - —
USP, dms. ..... lb. 1.80 - —
Euphorbia herb, bls ..... lb. .13 - .15

F

F salt paste, tech. dms., works lb 2.30 - —
Fennel oil, sweet, USP, cns. .... lb. 2.60 - —
Fennel seed, Argentine, bgs. ... lb .16 - —
French, light, bgs ..... lb. .16 - —
Indian, light, bgs ..... lb. .17½- —
Rumanian bgs ..... lb. .14 - —
Yugoslav light bgs ..... lb. .16½- —
Fenugreek seed, Moroccan, bgs lb. .08 - —
Ferric chloride anhyd., tech., dms., c.l. works 100 lbs. 7.50 - —
dms. l.c.l works 100 lbs. 8.50 - —
Ferric chloride indust., cryst., bbls., c.l., works 100 lbs. 5.25 - 6.75
bbls. l.c.l. works 100 lbs. 5.75 - 7.25
42° Be. photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt equald. 100% basis 100 lbs. 4.00 - —
USP cryst. dms. t.l., works lb. .08½- —
Ferric citrate gran. dms lb. .86 - —
Ferric hypophosphite, NF, 175-lb. dm lb. 4.25 - —
Ferric naphthenate, liq., 6% Fe, dms. frt alld lb. .28¼ - —
Ferric oxalate, tech., gran., 50-lb. dm. f.o.b works E lb. .89 - —
Ferric oxides (see iron oxides).
Ferric phosphate, NF, soluble, gran. pearls, cs lb. .72 - .75
Ferric pyrophosphate, NF VII. soluble, gran. pearls, 225-lb. dm.lb. .79 - —
Ferric resinate, dms., ton lots, frt. alld. lb. .45 - —

Working Chemical Magic

Celanese acrylates—versatile family of chemicals—are the magic ingredients in countless new and better produ
Acrylic coatings, for example, eliminate the need for priming metal surfaces before painting . . .
acrylic-based floor polishes give clear, scuff-proof finishes. And Celanese acrylates are improving fibers,
plastics, paper, adhesives, and many other products. Uses for acrylates are among the fastest growing
in the chemical field. Industry consumption has more than doubled in the past four years . . . with
new applications boosting the sales curve higher. Capacity of the Celanese, Texas plant will soon be doubled
to provide an annual capacity of 30-million pounds of methyl, ethyl, 2-ethylhexyl, and butyl acrylates. For
technical data, please write to: Celanese Chemical Company, 180 Madison Avenue, New York 16, N. Y.

Celanese

From this basic formula springs the magic-working Celanese family of acrylic acid—
methyl, ethyl, 2-ethylhexyl, and butyl acrylates.

Ferric stearate, dms., c.l., frt. alld. lb. .39 - —
dms., l.c.l., frt. alld lb. .40 - .44
Ferric sulfate, partly hydrated, bgs., c.l., works ton.35.25 —
bgs., l.c.l., works ton.36.25 -42.25
bulk, c.l., works ton.33.25 —
Ferric-ammonium citrate, brown, pearls, NF, gran., dms lb. .63 .68
Green pearls, USP XII, gran., dms lb. .66 .69
Ferric-ammonium oxalate, fine gran., dms lb. .27½- .29½
Ferric-potassium oxalate, fine gran., dms lb. .32½ .34½
Ferric-sodium oxalate, fine gran., dms lb. .27½- .29½
Ferrous gluconate, USP, 200-lb. dm., frt. equald lb. .96 - —
Ferrous sulfate, gran., bgs., c.l., works ton.34.50 - —
bgs., l.c.l., dlvd Metropolitan area 100 lbs 3.35 4.25
bbls., c.l., works ton.40.00 —
bulk, c.l., works ton.27.00 —
USP, cryst., bbls., dms lb. .09½- .10
Fir balsam, Canada, bbls. gal.32.00 -35.00
Oregon, bbls gal 3.40 4.64
Fir oil, Canada cns lb 1.75 2.50
Fish oil, refd., alkali, dms. lb. .1300- .1350
Kettle-bodied, dms. lb. .1530- .1580
Light-pressed, dms. lb. .1150- .1200
tanks lb. .10 - —
Fishliver oil, nat., high potency, 100,000 to 1,500,000 A units per gram, dms 1,000,000 units. .12 - —
Fishmeal, dom., menhaden, 60% protein, grd., bgs., Atlantic and Gulf coasts ton.92.00 - —
Fishscrap, dom., menhaden, dried, 60% protein, grd., bgs., Atlantic and Gulf coasts. ton.88.00 - —

Flaxseed (see Psyllium seed).
Folic acid, USP, bots., fib. dms., kilo lots or more gram. .30 - .44
10% feed grade, fib. dms., 3 kilos or more kilo.30.00 -44.00
Formaldehyde, 37% inhibited, 12 to 15% methanol), USP, dms., c.l., dlvd lb. .0695- —
tanks, dlvd. lb. .0430- —
Formaldehyde, methanol-free (uninhibited), tanks, dlvd lb. .0375- —
Formic acid, 85%, cbys. c.l., works. lb. .1570- —
cbys., l.c.l., works lb. .1620- .1720
90%, cbys., c.l., works lb. .1625- —
cbys., l.c.l., works lb. .1675- .1775
Fringetree bark, bls lb. .65 .70
Fumaric acid, tech., 250-lb. dms., c.l., frt. equald lb. .23¼- —
dms., l.c.l., frt. equald lb. .24¾- —
Fumaric acid in bags ½c. per lb less.
Furfural, dms. c.l. works lb. .13 - —
dms., l.c.l., works lb. .14 - —
tanks, dlvd. E lb. .11½- —
tanks, dlvd. W lb. .12½- —
Furfuryl alcohol, cns., works lb. .28 - —
dms., c.l., t.l., Newark, N. J. lb. .20½- —
dms., l.c.l., l.t.l., Newark N. J lb. .21½- —
dms., c.l., t.l., Memphis, Tenn lb. .19 - —
dms., l.c.l., l.t.l., Memphis, Tenn. lb. .20 - —
tanks, Memphis Tenn. lb. .175 - —
Fusel oil, refd. dms., c.l., dlvd lb. .18 - —
dms., l.c.l., dlvd. lb. .19½- —
tanks, dlvd. lb. .15½- —

G

G salt, bbls., frt. alld., 100% basis lb. .73 - —
Gallic acid, NF VII, bbls., 1,000-lb. lots lb. 2.00 - —
bbls., smaller lots lb. 2.02 - 2.22
Tech., bbls., 1,000-lb. lots lb. 1.78 - —
bbls., smaller lots lb. 1.80 - 2.00
Gamma acid, dry grd., bbls., frt. alld lb. 1.75 - —
Gammapicoline (see g-picoline).
Garlic oil, dom., bots. oz. 4.75 - 6.05
Imp., bots. oz. 4.50 - 5.00
Gaultheria oil (see Wintergreen oil).
Gelatin, edible 75 AOAC test, bbls., c.l., dlvd lb. .55 - —
150 AOAC test, bbls., c.l., dlvd. lb. .64 - —
200 AOAC test, bbls., c.l., dlvd. lb. .70 - —
225 AOAC test, bbls., c.l., dlvd. lb. .74 - —
275 AOAC test, bbls., c.l., dlvd. lb. .82 - —
Geisenium root, bls. lb. .30 - .35
Gentian root, bls. lb .24 - —
Grd., bbls., bxs lb .30 - —
Powd., bbls, bxs. lb. .30 - —
Geraniol, extra cns, dms. lb 1.75 2.40
Soap grade, dms lb .90 1.75
Standard, cns., dms. lb. 1.65 —
Synthetic, dms lb 1.30 —
Geranium oil, Algerian, cns. lb.22.00 -23.00
Bourbon, cns. lb.22.00 - —
Geranium oil, Turkish (see Palmarosa oil).
Geranyl acetate, cns. lb 1.90 2.70
Synthetic, dms lb. 1.45 —
Ginger oil, dist., bots. lb.11.50 -14.00
Ginger oleoresin, NF, from African root, bots lb 4.25 - 5.00
NF, from Jamaican root, bots. lb 7.75 - —
Ginger root, Cochin, bgs. lb. .28 - —
Jamaican, No. 3, bgs. lb. .28 - —
Nigerian, split, bgs lb. .22 - —
Sierra Leone, bgs. lb. .35 - —

Glauber's salt (see Sodium sulfate).
Gluconic acid, tech., 50% dms., c.l., t.l., f.o.b. works lb. .20 - —
dms., l.c.l., f.o.b. works lb. .21 - —
tanks, f.o.b. works lb. .17 - —
Glue, bone, extracted, dry bone, 86 jellygrams, bgs., c.l., dlvd lb. .16 —
131 jellygrams, bgs., c.l., same basis lb. .16½ —
164 jellygrams, bgs., c.l., same basis lb. .18½ —
Glue, bone, extracted, dry bone, 191 jellygrams, bgs., c.l., same basis lb. .19½ —
222 jellygrams, bgs., c.l., same basis lb. .21 - —
Glue, bone, green, 40 jellygrams, bgs., c.l., same basis lb. .16 - —
86 jellygrams, bgs., c.l., same basis lb. .16 —
115 jellygrams, bgs., c.l., same basis lb. .16½ —
Glue, bone, green, 135 jellygrams, bgs., c.l., same basis lb. .17½ —
164 jellygrams, bgs., c.l., same basis lb. .18½ —
180 jellygrams, bgs., c.l., same basis lb. .19½ —
200 jellygrams, bgs., c.l., same basis lb. .20½ —
Bone glue, l.c.l., prices 2c. higher.
Glue, hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .18 - —
95-149, bgs., c.l., dlvd lb. .19 - —
122-149, bgs., c.l., dlvd lb. .20½ - —
150-177, bgs., c.l., dlvd lb. .22½ - —
178-206, bgs., c.l., dlvd lb. .25 —
Glue, hide, 207-236, bgs., c.l., dlvd lb. .28 —
237-266, bgs., c.l., dlvd lb. .30½ - —
267-298, bgs., c.l., dlvd lb. .32½ - —
299-330, bgs., c.l., dlvd lb. .34½ - —
331-362, bgs., c.l., dlvd lb. .36½ - —
363-394, bgs., c.l., dlvd lb. .38 —
Glue, hide, 395-427, bgs., c.l., dlvd. lb. .40 - —
428-460, bgs., c.l., dlvd lb. .42 - —
461-494, bgs., c.l., dlvd lb. .44 - —
495-529, bgs., c.l., dlvd lb. .46 - —
Hide glue, l.c.l., prices 2c. higher.
l-Glutamic acid, 99½%, fib. dms., 100-lb lots, frt. alld lb 1.80 - —
fib. dms., 25-lb. lots, frt. alld lb 1.88 —
l-Glutamine, bots., 1-9 kilo lots, kilo.150.00 -300.00
Bots., 50-kilo lots kilo.100.00 —
Bots., 500-kilo lots kilo. 75.00 —
Glycerine, dom., nat., crude, saponification, 88%, tanks, dlvd. lb. .1870- —
nat., crude, soapiye, 80%, tanks, dlvd lb. .17 - .17¼
nat., refd., USP, CP, 99%, dms., c.l., dlvd lb. .28¾- —
dms., l.c.l., dlvd lb. .29¾- —
tanks, dlvd. lb. .27½- —
Glycerine, dom., nat., refd., USP, CP, 96%, dms., c.l., dlvd lb. .28 - —
dms., l.c.l., dlvd lb. .28¾- —
tanks, dlvd. lb. .26¼- —
nat., high gravity, dms., c.l., dlvd lb. .28¾- —
dms., l.c.l., dlvd lb. .29½- —
tanks, dlvd. lb. .27 - —
Glycerine, dom., syn., dms., c.l., dlvd lb. .29 - —
dms., l.c.l., dlvd lb. .29¾- —
tanks, dlvd. lb. .27¼- —
Imp., nat., crude, soaplye, 80%, c.i.f. lb. .15 - —
Glycine (see Aminoacetic acid).
Glycerol (see Glycerine).
Glycolic acid (see Hydroxyacetic acid).
Glycolonitrile, 70%, aqueous, dms., c.l., t.l., works lb. .40 - —
dms., l.c.l., same basis lb. .42 - —
tanks, same basis lb. .39 - —
Glyoxal, 30%, dms., c.l., works lb. .20½- —
dms., l.c.l., works lb. .21¼- —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb 3.10 - —
Gramicidin, 1 to 5 kilos, f.o.b. works gram. 4.25 - —
Grapefruit oil, dms lb. 3.00 - —
Graphite, amorp., powd., bgs., fib. dms., ex whse lb. .08 .09¼
Cryst., 88-90%, powd., bgs., fib. dms., ex whse lb. .19 .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 .24½
95-97%, powd., bgs., fib. dms., ex whse lb. .29 .31½
Flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 .31
Grease, white, choice all hog, tanks, dlvd lb. .08½- .08¾
Yellow, tanks, dlvd. lb. .05⅛- .05¼
Grease oil, No. 1, dms., c.l. lb. .13¾- —
dms., l.c.l. lb. .14¾- .15¾
Extra winter, strained, dms., c.l. lb. .16¼ —
dms., l.c.l. lb. .17¼- .18¼
Prime, burning, dms., c.l. lb. .17¾ —
dms., l.c.l. lb .18¾ .19¾

GREEN PIGMENTS
Green pigment quotations are listed individually. For example, prices on Green, chrome, may be found in the C's under Chrome green

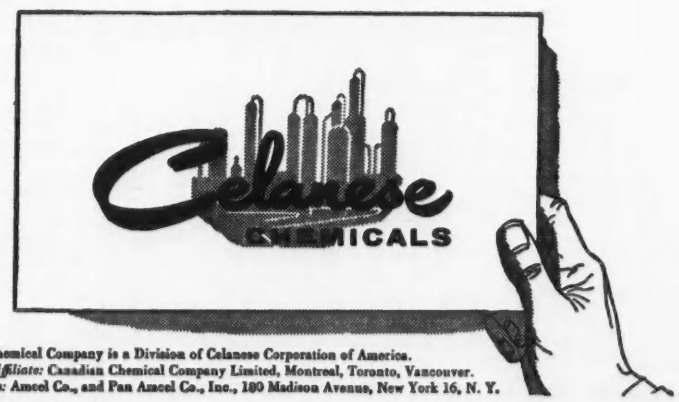
Grindelia robusta herb, bls. lb. .40 —
Guaiacol, NF, cryst., dms., tins lb 2.10 2.15
NF liq., cbys., dms. lb 2.30 2.40
Guaiacwood oil, cns. lb .65 .80
Guaiacol carbonate, NF VII, dms lb 3.40 3.45
Guar gum, food grade, bgs., c.l lb. .38 —
bgs., 5,000 lbs or more lb. .39 —
Indust., bgs., c.l. lb 32 —
Tech grade, bgs. lb .30 .33

GUMS
Gum quotations are listed individually. For example, prices on Gum, Dammar, may be found in the D's under Dammar gum

H

H acid, dry, bbls., c.l., frt. alld. 100% basis lb. 1.00 —
bbls., l.c.l., same basis lb. 1.05 - —
Hansa yellow 10 G, bbls., dlvd. f.o.b. works of Rockies lb 2.40 —
Hansa G yellow, pigment, bbls lb 2.20 —
Hawthorn berries, bgs. lb .18 .20
Heliotropin, 100-lb lots, dms. lb 2.60 3.40
Hellebore root, dom., green, bls lb .70 .75
Helonias root, bls lb 1.50 —
Hemlock oil, cns. lb 2.55 3.00
Henbane leaves, bls lb. .40 .45
Heptachlor, dms. c.l., t.l., frt. alld., 100% basis lb. .96 —

Celanese Acrylates



Celanese Chemical Company is a Division of Celanese Corporation of America.
Canadian Affiliate: Canadian Chemical Company Limited, Montreal, Toronto, Vancouver.
Export Sales: Amcel Co., and Pan Amcel Co., Inc., 180 Madison Avenue, New York 16, N. Y.

Heptane indust., tankcars, New Jersey and New York gal. .20 - —
Houston Texas gal. 1625- —
Hesperidin, purif., 50 kilos, f.o.b. works kilo.19.70 - —
Hesperidin methylchalcone, 50 kilos, f.o.b. works kilo.49.25 - —
Hexachlorophene dms., 1,100 lbs or more lb 1.84 - —
dms. to 1,100 lbs. lb 1.94 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine tech. bgs., 20,000-lb lots or more, Perth Amboy or New York City lb .233 - —
Hexamethylenetetramine tech. bgs., 1,000-19,999-lb lots, same basis lb .243 —
bgs. smaller lots same basis lb .253 —
fib dms. 1,000-lb lots or more, same basis lb .250 —
fib dms. smaller lots, same basis lb .253 - —
Hexamethylenetetramine, USP. bgs., 500 lbs. or more, f.o.b. Fords, N. J., dlvd. New York City and Philadelphia lb. .42½- —
bgs. smaller lots, same basis lb .43½- 48½
Hexane, industrial, tankcars, New Jersey and New York gal. .20 —
Houston Texas gal 16 —
3-Hexanol, dms., c.l., works lb .35 —
dms., l.c.l. works lb 35¾ —
tanks works lb .33 —
Hexyl cinnamic aldehyde, dms. lb. 3.95 - 4.00
n-Hexyl methacrylate, dms., c.l., works lb. 75½ —
dms. l.c.l. works lb 76 —
Hexyl salicylate, dms. lb. 1.70 - 1.75
Hexylene glycol, dms., c.l., dlvd lb 17½ —
dms., l.c.l., dlvd. lb 19 - —
tanks, dlvd lb .15 - —
Hexylresorcinol, USP, dms., 25-lb lots or more dlvd lb 14.00 - —
dms. smaller lots, dlvd lb 14.50 - —
Homatropine hydrobromide, USP, bots oz 3.25 - —
Homatropine methylbromide, USP, bots oz 3.25 - —
Hoofmeal, 17-18% ammonia bulk, c.l. Chicago unit-ton 6.75 —
Horehound herb, bls lb .18 .20
Hydrastis (see Goldenseal)
Hydrazine hydrate 85% ret. dms., works lb 1.35 1.55
100% ret dms. works lb 1.60 1.90
Hydriodic acid, purif., 47%, 2-cbys., f.o.b. works lb 2.92 —
Hydroabietyl alcohol, tech. solid, dms. c.l. dlvd zone 1 lb 29¼ —
dms., l.c.l., dlvd zone 1 lb 29¾ .30¼
tanks dlvd zone 1 lb 27¼ —
Zone 1 for hydroabietyl alcohol comprises all of continental US except Ariz., Calif., Colo., Idaho, Mont., Nev., N. M., Ore., Utah, Wash., Wyo., and the western part of Texas.
Hydrobromic acid, medicinal, 48%, cbys. frt equald lb .48 .56
Hydrochloric acid anhyd (see Hydrogen chloride)
Hydrochloric acid 18 cbys., c.l., works 100 lbs 2.50 —
cbys. l.c.l. dlvd Metropolitan area 100 lbs 2.90 3.05
tanks, works, frt equald ton 28.00 —
20° cbys. c.l., works 100 lbs 2.75 —
cbys. l.c.l. dlvd Metropolitan area 100 lbs 3.15 —
tanks works frt equald ton 30.00 —
Hydrochloric acid 22° cbys., c.l., works 100 lbs 3.25 —
cbys. l.c.l. dlvd Metropolitan area 100 lbs 3.65 —
tanks works frt equald ton 35.00 —
Hydrochloric acid CP, USP, fuming, cbys. extra, c.l., works lb. 15¾ —
cbys. l.c.l. same basis lb 17¼ .17¾
Hydrochloric acid, 5-pint bots., extra cs., c.l., same basis, lb 20¾ —
Hydrocortisone acetate, bulk, bots., kilo lots or more gram .95 - —
Hydrocortisone alcohol, bulk, bots., kilo lots or more gram 1.00 - 1.90
Hydrocyanic acid, dilute, NF, 2%, 5-pt bots, f.o.b. works pt. .70 - —
Hydrofluoric acid, anhyd. (see Hydrogen fluoride)
Hydrofluoric acid, aqueous, 70%, 55-gal or 30-gal dms c.l. t.l. dlvd 100 lbs 19.25 - —
55-gal dms. l.c.l., t.l., dlvd 100 lbs 20.75 - —
20-gal dms c.l. t.l. dlvd 100 lbs 21.00 - —
Hydrofluoric acid, aqueous, 70%, 20-gal., dms., l.c.l., t.l., dlvd 100 lbs.22.50 - —
tanks, works frt equald 100 lbs 13.40 —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington and Wyoming; in those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic acid dms., works, 30% basis lb. .07 - —
Hydrofuramide dms., fib cans, works lb 30 .40
50-lb cyls., t.c.l. works lb 55 .60
Hydrogen chloride anhyd., 50-lb. cyls. c.l. works lb 45 —
Hydrogen cyanide liq. 98% tanks, works lb .14 —
Hydrogen fluoride anhyd., cyls., dlvd E lb 30½ .32½
cyls. dlvd W lb .39 —
tanks works lb 18 —
Hydrogen peroxide 35% dms., c.l., dlvd lb 202 —
dms. c.l. dlvd lb 211 —
tanks dlvd lb 1800- —
Hydroquinone photo grade dms., 50 lbs f.o.b works lb 1.10 —
Tech dms. c.l. dlvd lb 82½ —
dms l.c.l dlvd lb 84½ —
Hydroquinone monomethyl ether, dms t.l. dlvd lb 2.59 —
dms l.t.l. dlvd lb 2.61 - —
Hydroxyacetic acid tech., 70% dms Philadelphia and Chicago lb 11 —
tanks Belle W Va lb .073 —
Hydroxyethylamine cns lb 4.85 5.75
Hydroxyethyl cellulose, all grades, fib dms quantities of 100 lbs or more f.o.b shipping point lb .84 - —
fib dms. 2,000 to 19,999 lb lots, same basis lb .89 - —
fib dms. 100 to 1,999 lb lots, same basis lb .93 - —
fib. dms., smaller lots, same basis lb 1.03 - —

Hyoscine salts (see Scopolamine).
Hyoscyamine hydrobromide, bots.oz. 7.75 - 8.50
Hyoscyamine sulfate, bots oz. 7.75 - 8.50
Hypophosphorous acid, purif., 50%, 10-cbys f.o.b works lb 1.95 - —
NF 50% 10-cbys., same basis lb. 1.35 - —

I

Ichthammol, NF, dms. lb. .75 - 1.05
Indigo (see Dyes, coaltar, 1171 indigo, syn.)
Indole, CP bots. lb.13.75 -15.00
Inositol, 50-100 lb dms., 1,000 lbs or more, dlvd lb 4.50 —
Inositol, 50-lb. dms., less than 1,000 lb., dlvd lb 4.75 - —
10 lb cns., 10-50 lbs dlvd lb 5.00 - —
5 lb bots. dlvd lb 5.25 - —
Insect flowers (see Pyrethrum)
Iodine, crude, kgs. lb. 1.10 - —
Resub., USP, dms., f.o.b. works.lb. 2.20 - 2.22
Iodochlorohydroquinolin USP dms lb 3.60 - —
Iodoform NF dms. 300-lbs. f.o.b works lb 4.90 - —
dms. 100-lbs. same basis lb 5.05 - —
a-Ionone cns lb 4.60 5.75
b-Ionone cns lb 4.15 6.15
Ipecac root, whole bgs. lb 8.00 8.50
Powd bbls bxs lb 9.50 10.00
Irish moss, bleached prime, bls lb .25 .27
Iron blue alkali-resisting bbls c.l., dlvd, E lb. .60 - —
bbls. l.c.l. ton lots same basis lb. .61 - —
bbls., smaller lots, same basis, lb. .62 - —
Dom., reg. bbls., c.l., dlvd. E lb. .55 - —
Iron blue alkali-resisting dom., reg., bbls., c.l., ton lots, same basis lb. .56 - —
bbls. l.c.l. smaller lots same basis lb. .57 - —
Imp. British reg. bbls. c.l. dlvd E lb. .48 - —
bbls. l.c.l. ton lots same basis lb .49 - —
Iron blue, British, reg., bbls., l.c.l., smaller lots, same basis.lb. .50 - —
Iron blue dlvd prices to nughes for Pacific Coast states: Wash., Ore., Cal., N. M., Ariz., Mont., Wyo., Utah, Col. and Nev.
Iron compounds (see Ferric or Ferrous)
Iron oxide black pure bgs., c.l., works lb .14¾- —
bgs. l.c.l. works lb .15 —
Iron oxide brown pure bgs., c.l., works lb 14¼ —
bgs. l.c.l. works lb 14½ —
Iron oxide metallic brown bgs., works lb. .05½- —
Iron oxide Persian Gulf red bgs., c.l. works lb 08¾ —
Iron oxide, red, dom., pure bgs., Bethlehem, E. St. Louis, New York City lb .14¼ —
Iron oxide, red nat. 75-85% ferric oxide bgs., c.l., works lb 08¼ —
bgs. l.c.l. works lb 06½ —
Iron oxide Spanish red, bbls., c.l., ex dock lb .05¾ Nom
bbls. l.c.l. ex dock lb .06 Nom
bbls. l.c.l. ex whse New York lb 06½ Nom
Iron oxide yellow nat., French type bgs., c.l., works lb. .06¾ .07
Peruvian type bgs c.l. lb 023 024
Iron oxide yellow pure, light lemon shade bgs c.l. works lb 12¼ —
other shades, same basis lb. .12 - .12½
Isoamyl alcohol dms. c.l. works frt alld E lb 27½ —
dms., l.c.l. same basis lb 29 - —
tanks same basis lb 25 —
Isobornyl cinnamate cns lb 1.44 1.80
Isobornyl acetate cns lb 46 56
Isobornyl formate, dms lb. 1.15 - 1.20
Isobornyl propionate, dms lb. 1.20 - 1.25
Isobutyl acetate, perfume grade, cns lb. .30 - .35
Isobutyl acetate, solvent grade dms. c.l., dlvd E of Rockies lb .15¼ —
dms., l.c.l. same basis lb .16¾ —
tanks same basis lb .12¾ —
Isobutyl alcohol dms., c.l., dlvd lb .15½ —
dms., l.c.l., dlvd. lb .17 - —
tanks, dlvd lb .13 - —
Isobutylene, 99% tanks, works gal. .38 - —
Isobutyl isobutyrate, dms. f.o.b. works lb 75 - —
Isobutyraldehyde, CP, dms. c.l., dlvd lb. .27½ —
dms. l.c.l. dlvd. lb .28½ —
Tech., dms., c.l., dlvd. lb .22 —
dms., l.c.l., dlvd. lb .23 —
tanks, dlvd lb .19½ —
Isobutyric acid, dms. c.l., t.l., dlvd, lb .35 —
dms., l.c.l., t.l. same basis lb .36½ —
t.c. t.t. same basis lb 33 —
Isobutyronitrile, dms., c.l., dlvd, lb. .47½ —
dms., l.c.l., dlvd lb. .48½ —
tanks, dlvd. lb. .45 —
Isoeugenol cns lb 3.40 4.25
Isoniazid, powd., bulk, 50 kilos kilo.12.00 - —
Isonicotinic acid, 100-lb fib dms, works lb 4.25 - —
Isonicotinic acid hydrazide (see Isoniazid)
Iso-octyl alcohol, dms., c.l., dlvd E, lb 23½ —
dms., l.c.l., dlvd E. lb 25 - —
tanks, dlvd E lb .21 —
Isopentane, comml. grade, tanks, f.o.b Tex. refy gal. .16½ —
Isophorone, dms., c.l., dlvd lb. .24½ —
dms., l.c.l., dlvd lb. .25¼ —
tanks, dlvd lb. .22¼ —
Isophthalic acid, dms., c.l., works, frt equald lb .18 —
dms. l.c.l., same basis lb .19 - —
Isopropanol (see Isopropyl alcohol).
Isopropyl acetate dms. c.l., dlvd, lb. .14 - —
dms. l.c.l., same basis lb .15½ —
tanks, same basis lb. .11½ —
Isopropyl alcohol, refd., 91%, dms., c.l., dlvd gal. .58 - —
dms., l.c.l., dlvd. gal. .68 - —
tanks, dlvd gal. .42 - —
Isopropyl alcohol refd. 95%, c.l., dms., dlvd gal. .60 - —
dms., l.c.l., dlvd. gal. 70 - —
tanks, dlvd gal. .44 - —
anhyd. c.l. dlvd. gal. .62 - —
dms., l.c.l. dlvd. gal. 72 - —
tanks, dlvd gal. .46 - —
Isopropyl benzene (see Cumene)
Isopropyl ether dms. c.l. dlvd lb. .09½ —
dms. l.c.l. dlvd lb. .11 - —
tanks, dlvd lb. .07 - —
Isopropyl-N-(3-chlorophenyl) carbamate (CIPC) tech., dms., c.l. t.l. works lb 1.00 —
dms., l.c.l. works lb 1.05 1.25
tanks, works lb. .99 —
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb fib dms. c.l., t.l., works lb. .75 - —
450-lb fib dms. l.c.l., works lb. .80 - .90
Isoquinoline, dms., works lb 65 1.25
Itaconic acid, refd. bgs. c.l., f.o.b. works lb. .49½- —
bgs., l.c.l., same basis lb. .50½- —
Tech., bgs., c.l., same basis lb. .34½- —
bgs., l.c.l., same basis lb. .35½- —

J

J acid, paste bbls., works, 100% basis lb 2.70 - —
Powd., bbls. same basis lb 2.75 - —
Jalap root, NF bls lb. 60 - —
NF powd. bbls. bxs. lb 70 .75
Japan wax, cs. lb. .29 .31
Juniper berries, bgs. lb 16 .17
Juniper berry oil, NF, bots. lb 2.90 3.75
Twice rectified, bots. lb 3.25 —
Juniper tar oil, NF, dms. lb 42 .60
Juniper wood oil, tech. cns. lb. .38 .55

K

Kaolin (see also Clay, China).
Kaolin NF powd., fib dms lb. .10 - .12
NF colloidal 50-lb. bgs. lb. .15½ - .17½
Karaya gum No. 1, NF, powd., bls lb. .48 .50
No. 2, powd. bbls. lb. .43 .45
No. 3, powd. bbls lb. .37 .40
Koch acid bbls. frt. alld., 100% basis lb 1.00 - —
Kola nuts, bgs. lb. .11 - .12

L

L acid, bbls., works lb. 1.25 - —
Lacquer diluent, petroleum, 140°F. 200°F b.r., tankcars, New Jersey and New York gal. .20 - —
Group 3 gal. .15125- —
Houston, Texas gal. .16 —
Lacquer diluent, petroleum, 200°F-240°F b.r., tankcars, New Jersey or New York gal. .20 - —
Group 3 gal. .14125- —
Houston, Texas gal. .16 —
Lactic acid, edible, 50%, bbls. dms., c.l., frt. equald lb. .1985- —
bbls. dms., 20 or more, frt. equald lb. .2035- —
bbls. dms., 5 to 19, frt equald. lb. .2085- —
bbls. dms. 1 to 4, frt equald. lb. .2135- —
Lactic acid, edible, 80% bbls., c.l., dms., frt equald lb. .3335- —
bbls. dms. 20 or more, frt equald lb 3385- —
Lactic acid edible, 80% bbls., dms., 5 to 19, frt. equald lb. .3435- —
bbls. dms. 1 to 4 frt equald lb 3485- —
Plastic grade, 50% c.l., bbls., works lb 2740- —
bbls. 20 or more, works lb 2790- —
bbls 5 to 19 works lb 2840- —
bbls 1 to 4, works lb 2890- —
80% bbls. c.l. works lb 4625- —
bbls 5 to 19 works lb 4725- —
bbls 1 to 4, works lb 4775- —
Lactic acid, tech., 44%, bbls., c.l., works 100 lbs.12.45 - —
bbls l.c.l. works 100 lbs 12.85 - —
USP 85% cbys lb 85 - —
Lactose, crystalline edible, bgs., 20,000 lb lots, frt equald lb. .14 - —
bgs 6,000 lb lots, frt equald lb 14½ - —
bgs 2,000 lb lots frt equald lb 14¾ - —
bgs. 200 lb lots, frt equald lb 15¼ - —
Edible lactose in fib dms. ½c higher
Lactose, ferment. grade, bgs. c.l., works lb 08½ - —
Lactose USP, reg., fib dms. 30,000-lb lots, frt equald lb. .21½- —
fib dms. 2,000-lb lots, frt. equald lb. 22¼ - —
200-1,880-lb lots, frt. equald lb. 22¾ - —
USP lactose in bags ½c to 1c lower
Lactose USP spray dried, bgs., t.l., frt equald lb. .18½- —
bgs. t.l.t. frt equald lb 19 19¾
Lady's slipper root, bls lb. 3.00 3.50
Lamp black, bgs. c.l., works lb. .16 .45
Lanolin USP anhyd. 400-lb dms., works lb. 24 - .26
USP, anhyd., cosmetic, 400-lb. dms. works lb. 26 .30
USP hydrous, 400-lb dms., works, lb .20 —
Lard, cash, dms., Chicago lb. .1020- —
Lard oil (see Grease oil).
Larkspur seed bgs. lb. .55 - —
Laurel leaf oil, dms. cns. lb 9.75 -12.50
Laurent's acid bbls lb 70 —
Lauric acid, pure, dms. lb. .32¼- .34¾
tanks lb .29¾ —
Lauryl alcohol, bots lb 2.00 2.50
n-Lauryl methacrylate, dms., c.l., t.l., works lb. .65½- —
dms. t.t.s., works lb. .66 - —
Lavandin oil, 22-24%, dms. lb. 1.08 - 1.10
Abrial, dms. lb. 1.12 - —
Lavender flowers, medium, bls lb. .55 - .60
Ord. bls lb. .20 - .25
Select., bls lb. .90 - 1.00
Lavender flower oil, USP, French, 35-37% ester, cns lb. 1.85 4.00
40-42% ester, cns lb. 5.00 7.75
Spike, Spanish, cns lb. 1.75 - 2.00
Lead acetate, NF, cryst., gran., powd., bbls lb .34½- —
White, cryst., bbls. lb. .25½- —
gran. bbls. lb. .26½- —
powd bbls lb. .26½- —
Lead arsenate acid powder, dealers, 3-50-lb bgs or any quantity frt alld on $150 or more lb. .30¼- —
1-lb bgs. same basis lb. .47 - —
Lead, blue, basic sulfate, bbls., c.l., shipt point, frt. alld lb. .17 - —
bbls. l.c.l. same basis lb. .18 - —
Lead carbonate (see Lead, white, basic carbonate).
Lead chloride dms lb. .52 - —
Lead iodide NF V tars lb 3.82 - —
Lead linoleate, fused, 26.5% Pb, dms, lb. .38 - —
Lead metal, prime, pigs, New York, lb. .11 - —
St. Louis lb. .1080- —
Lead monosilicate, bgs., c.l., works, frt equald lb. .1385- —
bgs., l.c.l., same basis lb. .1485- —
Lead naphthenate, liq., 16% Pb., dms., dlvd lb. .19½- —
24% Pb. dms., dlvd. lb. .24¼- —
Solid, 47% Pb. dms. dlvd. lb .31¾- —
Lead nitrate bbls lb. .24¼- .26¾
Lead orthosilicate gel., 50-60% PbO, dms. works lb. .29¾- .34½
Lead peroxide tech powd. bbls lb. .45 - .50
Lead phthalate dibasic, dms. works, lb. .41 - —
Lead, red 95% Pb_3O_4 or less, bbls., c.l., works, frt. equald, lb. .1375- —
bbls., l.c.l., same basis lb. .1475- —
Lead, red, 97% Pb_3O_4, bbls., c.l., same basis lb. .1375- —
bbls., l.c.l., same basis lb. .1475- —
Lead, red, 98% Pb_3O_4, bbls., c.l., same basis lb. .1410- —
bbls., l.c.l., same basis lb. .1510- —
Lead, resinate, precip., 23%Pb, dms., lb. .49 - —
Lead salicylate, normal dms. works lb. .46 —
Lead silicate (see Lead white basic silicate).
Lead silicochromate, bgs., c.l., f.o.b. mfrs point, frt. alld lb. .20 —
bgs., l.c.l., same basis lb. .21 - —
Lead sulfate (see Lead blue basic sulfate).
Lead tallate liq. 16% Pb. dms lb. .17¼- —
24% Pb, dms lb. .21¼- —
Solid, 30% Pb. dms lb. .26¾- —
Lead white, basic carbonate, bgs., c.l. shipt pt., frt. alld lb. .18 - —
bgs. l.c.l. same basis lb. .19 - —
basic silicate bgs. c.l., shipt. pt. frt. alld lb. .16½- —
Lead, white, basic silicate, bgs., c.l., shipt. pt., frt. alld. lb. .17 - —
bgs. l.c.l. same basis lb. .18 - —
Lecithin, edible tech. bleached, non-ret dms., c.l. works, lb. .14 - .15
non-ret dms., l.c.l., same basis lb. .15 - .16
Lecithin, edible, tech., unbleached, non-ret dms. c.l., same basis lb. .13 .14
non-ret dms. l.c.l., same basis lb. .14 .15
Lemon bioflavonoid complex, 50 kilos, f.o.b. works kilo.14.20 - —
Lemon oil, USP, Calif., cns., dms lb 1.25 1.50
Messina cns lb 3.25 4.00
Lemongrass oil, cns., dms lb. 2.40 - —
di-Leucine, dms., 1 kilo, works kilo.50.00 - —
Licorice root gran. bls lb 13 —
Powd. bls lb 15 .16
Whole bls. lb 09 .10
Lignaloe wood oil, Mexican, cns lb 2.75 3.50
Lignosulfonate (see under Ammonium or Sodium lignin sulfonate)
Lilac oil lb. 1,500.00
Lime, chemical (quicklime), bulk, c.l. 50,000 lbs. works, E ton.14.25 - —
Chemical, hydrated, bgs., c.l., same basis ton.17.25 - —
spray, bgs., c.l. same basis ton.18.25 —
For New York delivery add $6.29 freight charge
Lime oil, dist., Mexican, cns. lb. 5.35 - 5.60
West Indian, cns. lb. 5.00 - 5.60
Expressed West Indian, cns lb .775 .875
Lime salts (see Calcium)
Lime-ammonium nitrogen, 20.5% N (see Ammonium nitrate with dolomite).
Linalool ex bois de rose oil dms lb 2.45 4.25
Syn. 98-100% dms., works lb 2.40 2.75
Linalyl acetate ex bois de rose 90 92% dms lb 2.65 4.50
96-98% dms lb 3.25 —
Syn., 98-100% dms., works lb 2.75 —
Lindane 25% formulation to distributors dms. frt alld. lb. 1.35 1.50
Lindane, tech., to formulators, 250-lb dms, 5,000 lbs. dlvd. lb 2.13 - —
100-lb dms., 5,000-lbs. dlvd. lb. 2.15 - —
250-lb dms. less than 5,000-lbs., dlvd lb. 2.18 - —
100-lb dms. less than 5,000-lbs., dlvd lb 2.20 —
Linden flowers, with leaves bls lb. .35 .40
Without leaves bls lb. .42 .45
Linseed meal, expeller, 32% bulk, Minneapolis, mills ton.59.00 - —
Extracted, 34% bulk, same basis ton.53.00 - —
Linseed oil, raw, dms., c.l., New York lb. .1620- —
dms., l.c.l., New York lb. .1710- .1760
tanks, f.o.b. Minneapolis lb. .1260- —
tanks, New York lb. .1372- —
tankwagon, New York lb. .1432- —
Boiled linseed oil, .006c. per lb. higher.
Linseed oil, acid, dist., dms lb. .1980- —
Water-white, dms. lb. .2280- —
Litharge, comi., powd. bbls., c.l., works, frt. equald lb. .1325- —
bbls., l.c.l., same basis lb. .1425- —
Lithium aluminum hydride, lump, dms., works lb.33.00 -39.00
Lithium benzoate, dms. lb. 1.65 1.67
Lithium bromide, NF, gran., bgs., works, frt. equald lb. 2.60 - —
Lithium carbonate NF, dms., c.l., t.l., dlvd lb. 1.29½- —
dms., ton lots to t.l., dlvd lb. 1.30 - 1.30½
Tech., dms., c.l., frt. alld lb. .67 - —
dms., t.l., same basis lb. .73 - —
dms., ton lots, same basis lb. .76 - —
dms., smaller lots, f.o.b., plant. lb. .81 - —
Lithium chloride, CP, anhyd., dms., ton lots lb. 1.23½- —
Tech., anhyd., dms., c.l., t.l., dlvd, or works, frt. alld lb. .87 - —
dms. l.c.l. same basis lb. .88 - .92
Lithium citrate NF, dms., ton lots, lb. 1.50 - —
Lithium fluoride, dms., 20,000-lb. lots, dlvd lb. 1.75 - —
bbls., ton lots and more, dlvd lb. 1.85 - —
bbls., less ton lots, dlvd lb. 1.90 - —
Lithium hydride, powd., dms., 500-lbs. lots or more, works, lb. 9.50 - —
Lithium hydroxide, monohydrate, dms. c.l., t.l., frt. alld lb. .72 - —
dms., l.c.l., frt. alld. lb. .73 - —
Lithium manganite, dms., works lb. .95 - 1.00
Lithium nitrate, tech., dms., 100-lb lots lb. 1.15 1.25
Lithium salicylate, dms. lb. 1.60 1.70
Lithium silicate, dms., works lb. 1.10 1.20
Lithium stearate, dms., c.l., works, lb. .47½- —
dms. ton lots, works lb. .48½- —
dms., less-ton lots, works lb. .53½- —
Lithium sulfate dms., 100-lb. lots, lb. 1.15 1.25
Lithium titanate, dms., works lb. 1.15 - 1.25
Lithol red toner, barium, bbls., works lb. 1.03 - —
Lithol-rubine red toner, pure, bbls., works lb. 1.65 - —
Resinated, bbls., works lb. 1.52 - —
Lithopone ord. bgs. c.l., dlvd E, lb. .08¾- —
bgs., l.c.l., dlvd, E lb. .09½- —
Titanated (high-strength), bgs., c.l., dlvd lb. .11 - —
bgs., l.c.l., dlvd. lb. .12 - —
Lobelia herb, bls lb. .95 - 1.10
Lobeline sulfate, bots., 50-oz. lots, works oz.30.00 - —
Locust bean gum, powd., bgs. lb. .35 - .40
Lycododdium, cs. lb. 2.50 - 3.00
l-Lysine monohydrochloride, 25-lb. dms lb. 4.95 - —

M

Mace, Siauw, No. 1, bls. lb. 1.58 - —
No. 2, whole, bls. lb 1.40 - —
siftings, bls lb. 1.35 - —
Mace oil, dist., cns., dms lb. 9.00 -11.00

Magnesia, calcined, tech., bgs., etns., frt. equald lb. .25¾- .26½
Tech., syn., rubber grade, light, bgs., c.l., frt. equald lb .28¾- .30
rubber grade, extra light, bgs., c.l., frt. equald. lb. .28 - —
bgs., l.c.l., frt. equald lb. .28¾- —

Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points

Magnesia, calcined, tech., heavy, 85%, bgs., c.l., f.o.b. Lunning, Nev ton.39.50 - —
91%, bgs., c.l., same basis. ton.49.50 - —
95%, bgs., c.l. same basis. ton 59.00 - —
USP, light, bgs. ..... lb. .36½- .37½
USP, heavy, bgs. ..... lb. .36½- .37½

Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton.86.25 - —
Chemical grade, deadburnt, standard grain, bulk, c.l., Chewelah, Wash. ton.46.00 - —

Magnesium bromide, 80-lb. dm., f.o.b. works lb. 1.15 - —

Magnesium carbonate, tech., bgs., c.l., frt. equald lb. .11 - —
bgs., t.l., frt. equald lb. .11½- —
bgs., l.c.l., frt equald lb. .13½- .14

Magnesium carbonate, USP, bgs., c.l., frt. equald lb. .13½- —
bgs., t.l., frt equald lb. .14 —
bgs., l.c.l. frt equald lb. .15 16

• Above prices are quoted f.o.b. works, freight equald., with Metropolitan New York and competitive producing points.

Magnesium chloride, annyd., 92%, flake or pebble, drums., c.l. works lb. .12¾- —
dms., l.c.l., works lb .14 .15

Magnesium chloride, hydrous, 99%, flake, bgs., c.l., works ton.60.00 —
bgs., l.c.l., works ton.75.00 -100.00

Magnesium gluconate 100-lb. dm., f.o.b works, E lb. 1.42 —

Magnesium hydroxide, NF, powd., dms., 500-lbs. or more, f.o.b. works lb. .24½- .25½

Magnesium lauryl sulfate, dms., c.l., frt. alld lb. .22½- —
dms., t.t.l., frt alld. lb. .23½- —
tanks, frt alld. lb. .21½- —

Magnesium metal, 99.8%, ingots, 10,000-lb. lots or more, works lb .36 - —
pigs, 10,000-lb. lots or more, works lb. .35¼- —
sticks, cs., works, frt. alld on carlots lb. .59 - —

Magnesium nitrate, cryst., dms., works lb. .29 - —

Magnesium oxide (see Magnesia, calcined).

Magnesium phosphate, tribasic, NF, bbls lb. .75 - —

Magnesium silicate (see Talc).

Magnesium silicofluoride, dms., works lb .10½- .12

Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
bgs, l.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works, 100 lbs. 2.35 - —
bgs. l.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
bgs., smaller lots 100 lbs. 3.35 - —

Magnesium trisilicate, USP, fib dms., 5,000-lb. lots lb. .38 - —
fib dms., 1,000-lb. lots..... lb. .40 - —
fib dms., 100-lb. lots..... lb. .45 - —

Bulky and super grades of magnesium trisicilate 7c. per lb. higher.

Malachite green, straight, PTA, bbls., works lb. 5.30 - —

Malathion, dms., c.l., works lb. .89 - —
dms., l.c.l. works lb. .92 - 1.01

Maleic acid, cryst., powd., dms lb. .37¼- —

Maleic anhydride, dms., c.l., frt. equald lb. .24 - —
dms., l.c.l., frt. equald lb. .25½- —
tanks, frt equald lb .22½- —

Maleic anhydride in bags ½c. per lb. less.

Malic acid, tech., dms lb. .50 - —

Mandelic acid, NF, dms., 1,000-lb. lots lb. 2.35 - —
dms, smaller lots..... lb 2.40 - 2.50

Mandrake root, bls..... lb. .45 - —

Manganese acetate, dms., dlvd lb. .35 - —

Manganese borate, tech., fib. dms. lb. .23½- —

Manganese carbonate, chemical grade, 46% Mn, bgs., 20,000-lb. lots and more, works lb. .11 - .16

Manganese chloride, CP, anhyd., dms., 20,000-lb. lots, works lb. .21¾- —
smaller lots, works..... lb. .23½- —

Manganese dioxide, African, 83-87%, 40,000 to 99,999-lb. lots, burlap paper lined bgs., gross for net works ton.148.00 - —
40,000 to 99,999-lb. lots, paper bgs., same basis ton.144.50 - —
40,000 to 99,999-lb. lots, dms. same basis ton.152.50 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots, $3 per ton higher.

Manganese gluconate, dms..... lb. 1.84 - —

Manganese hydrate, dms., dlvd lb. .35 - —

Manganese hypophosphite, NF, dms. lb. 3.52 - —

Manganese linoleate, liq., 4.35% Mn, dms lb. .35¾- —
Solid, precip., 8.2% Mn. bbls lb. .41¼ —

Manganese metal, electrolytic, dms., c.l., dlvd. E lb. .34½- —
dms., ton lots, dlvd. E lb. .37 - —
dms., smaller lots, dlvd E lb. .39 - —

Manganese naphthenate, liq., 6% Mn, dms., frt. alld lb. .29¾- —

Manganese resinate, fused, 3½% Mn. dms lb. .29¼- —
Precip., 6½-7% Mn, dms. .... lb. .42 - —

Manganese sulfate, fertilizer grade, 65% $MnSO_4$, bgs., c.l., dlvd. S., E ton.86.50 - —
bgs., l.c.l., dlvd. S., E ton.93.50 - —

Manganese tallate, 6%, dms. .... lb. .26½- —

Manila copal gum, C, bgs..... lb. .35 - .39
DBB, bgs. ..... lb. .25 - .28
DK, dust, bgs. ..... lb. .14 Nom.
MA, soft, bgs. ..... lb. .20 .24
WS, bgs ..... lb. No stocks.

Mannitol, com'l. fib dms., ton lots, works lb. .60 - —
fib. dms., to ton lots, works lb. .62 - —
fib. dms., single dm., works lb. .65 - —

Marine pitch, dms. ..... lb. .04¼- .05

MBTS (see Mercaptobenzothiazyl disulfide).

MBT (see 2-Mercaptobenzothiazole).

Melamine, bgs., c.l., works..... lb. .26½- —
bgs., l.c.l., works..... lb. .28 - —

Menadione, USP bots. ..... gram. .044 - .05

Menhaden oil, crude, tanks, works, Atl. ... Gulf ... lb. .06¼- —

Menthol, nat., USP, Brazilian, large crystals, cs lb. 8.75 - 9.00
Nat., USP, Brazilian, regular crystals, cs lb. 8.60 - 8.85
Japanese, cs. ..... lb 10.50 -12.00
Syn., USP, racemic, 25-lb. lots. lb. 4.25 - —

2-Mercaptobenzothiazole, bgs., fib. dms., ton lots, works, frt. alld lb. .44 - —
bgs., fib. dms., less ton lots, same basis lb. .48 - —

Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton lots, works, frt. alld lb. .54 - —
bgs., fib. dms., less ton lots, same basis lb. .56 - —

Mercuric chloride, NF, cryst., dms., 100 lbs., f.o.b works lb 4.03 - —
USP, gran. or powd., 50-lb. dm., 100 lbs., f.o.b. works lb. 3.78 - —

Mercuric cyanide, NF VIII, powd., fib. dms lb. 5.84 - —

Mercuric iodide, red, NF, 100-lb. dm., f.o.b. works lb 6.97 - —

Mercuric oxide, red, NF IX 50-lb. dm., 100 lbs. f.o.b. works, lb. 4.72 - —
tech., 50-lb. dm., 100 lbs., same basis lb. 4.52 - —

Mercuric oxide, yellow, NF, 50-lb. dm., 100 lbs., same basis, lb. 4.89 - —
tech., dms., 100 lbs ..... lb. 4.35 - —
25-lb. fib dm. ..... lb. 4.38 - —

Mercurous chloride (see Calomel).

Mercurous iodide, yellow, NF, 100-lb. dm. f.o.b works lb. 8.22 - —

Mercury, ammoniated (see White precipitate USP XV).

Mercury metal, 76 lbs. per flask, net-flask 209.00 -212.00

Mesityl oxide, dms., c.l., dlvd .. lb. .15 —
dms., l.c.l., dlvd. ..... lb. .16½- —
tanks, dlvd ..... lb. .12½- —

Meta-aminophenol (see m-Aminophenol).

Metachloroaniline (see m-Chloroaniline).

Metanilic acid dms. works .... lb. .57 - .78

Metanitroparatoluidine (see m-Nitro-toluidine).

Metanitroaniline (see m-Nitroaniline).

Metaphenylenediamine (see m-Phenylenediamine)

Metatoluidine (see m-Toluidine).

Metatolylenediamine (see 2,4-Tolyienediamine).

Methacrycilic acid, glacial, 98%, dms., truckloads frt. equald lb. .42½- —
dms., smaller lots, frt. equald. lb. .43 - .75
tanks, works, frt. equald lb. .40 - —

Methanol, nat, denaturing grade, tanks, frt alld gal. .85 - —
Syn., zone 1, dms., c.l., or t.l. min., dlvd gal. .51½- —
dms., l.c.l., dlvd. ..... gal. .61½- —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
tankwagon, 4,000 gal. min., dlvd gal. .30 - —
tankwagon, 4,000 gal. min., f.o.b. terminal gal. .29 - —

Methanol, syn., zone 2, dms., c.l., or t.l., min. frt. alld. or dlvd. gal. .55½- —
dms., l.c.l., works..... gal. .65½- —
tankwagon, 2,000-4,000 gal. lots, min., dlvd., Metropolitan area gal. .39 - —
tanks, 4,000 gal. min., dlvd. gal. .34 - —

Synthetic methanol zones are: Zone 1 is all continental US E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of US west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methapyrilene fumarate, 100-999 lbs., dms., f.o.b. works, frt. equald lb.21.75 - —
Methapyrilene hydrochloride, 100-999 lbs., dms., f.o.b. works, frt equald lb.27.25 - —

Methenamine (see Hexamethylene-tetramine).

Methionine hydroxyanalogue (calcium salt) 90% min., dms., t.l., frt alld lb 1.10 - —
dms., t.t.l., same basis lb 1.16 - —

dl-Methionine, fib. dms., frt alld., 50-lb or more lb 3.50 - —
Feed grade, 98% fib dms. same basis lb. 1.43 - —

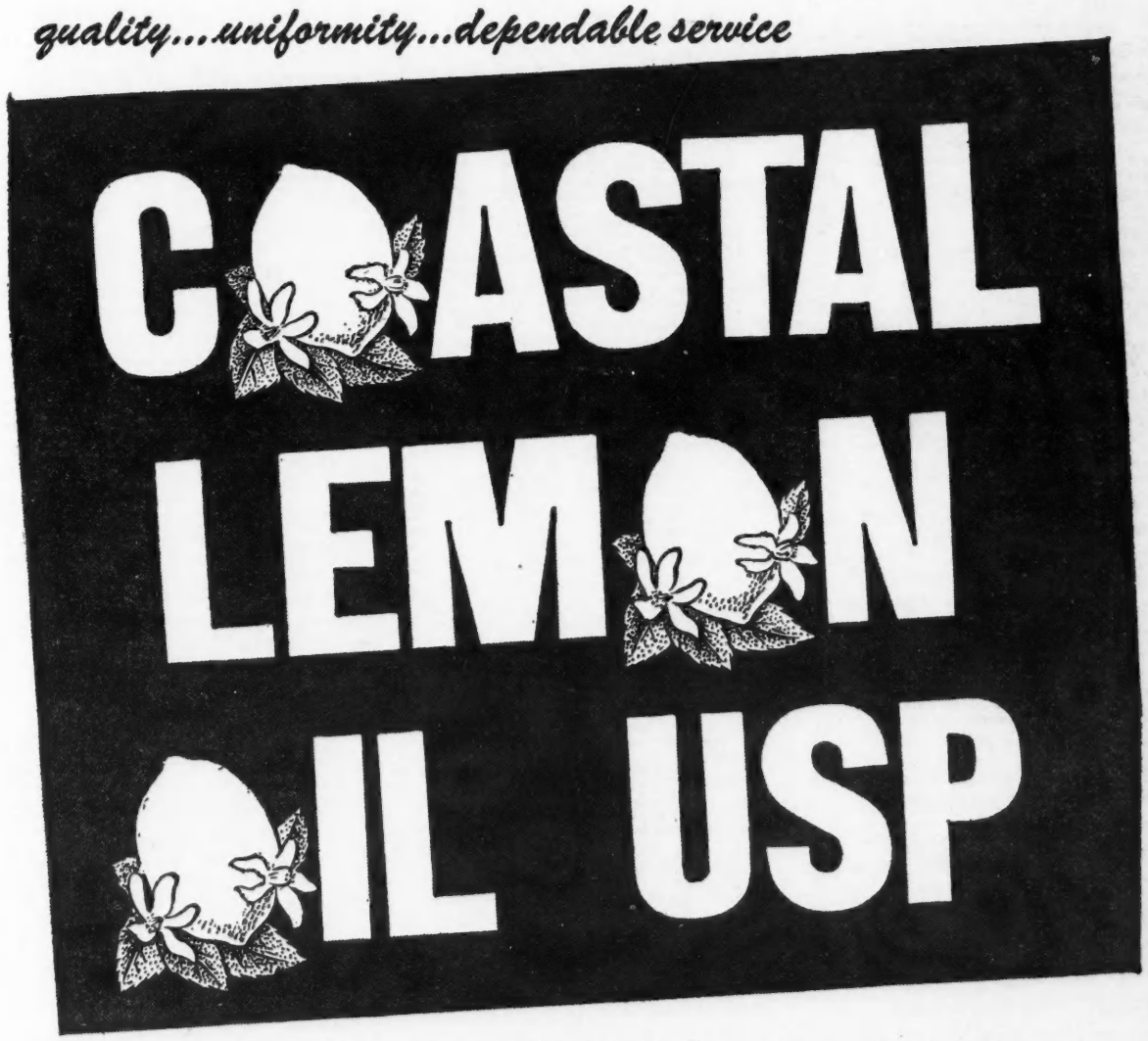
Methoxychlor, 50% wettable powder, dealers, dms., cs lb. .66 - —

Methyl abietate, non-ret dms., c.l., dlvd zone 1 lb. .21½- —
non-ret. dms., t.c.l., same basis lb. .22 .22½
Methyl abietate, hydrogenated, non-ret. dms., c.l., dlvd zone 1 lb. .23½- —
non-ret. dms., t.c.l., same basis, lb. .24 .24½

Zone 1 includes New England and Middle Atlantic states, Va., W Va., N C., Ohio Ky., Mich., ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala., Ga., Fla., S C. and Tenn.

Methyl acetone, nat. dms., t.c.l., E. of Miss., frt alld gal. .62½- —
Methyl acetone, syn., dms., c.l., frt. alld. E gal. .66 - —

quality...uniformity...dependable service



PURE California cold pressed lemon oil produced under continuous scientific quality control . . . bulk blended for uniformity, from desert and coastal grown lemons . . . packaged in tamper-proof containers for your protection . . . and priced to save you money. Our research and laboratory facilities have helped many users with product improvement and cost reduction...perhaps we can help you.

VENTURA PROCESSORS, Ventura, California

DISTRIBUTED BY:

International Flavors & Fragrances, Incorporated
417 Rosehill Place, Elizabeth 2, New Jersey

Ventura Processors, 2325 Vista Del Mar Drive, Ventura, California

Methyl acetone, syn., dms., l.c.l., frt. alld. E gal. .76 - —
tanks frt alld E gal. .51 —
Synthetic methyl acetone E territory comprises all states East of and including Colo., Mont. N Mex. and Wyo West territory is made up of all states west of those four.
Methyl acrylate, dms., c.l., t.l., drvd. lb. .36¼- —
dms., t.t.l., drvd lb. .35¼- —
tanks, drvd. lb. .32¼- —
Methyl alcohol (see Methanol).
Methyl amyl acetate, dms., c.l., drvd. E lb. .17 - —
dms., t.c.l., drvd E. lb. .18½- —
tanks, drvd E. lb. .14½- —
Methyl amyl alcohol, dms., c.l., drvd. lb. .17 - —
dms., t.c.l., drvd. lb. .18½- —
tanks, drvd lb. .14½- —
Methyl amyl ketone, dms., c.l., t.l., f.o.b. works lb. 1.99¼- —
N-Methylaniline, tech., tanks, frt. alld lb .60 —
Methylanthranilate, cns. lb 2.25 2.45
Methyl benzoate, cns., dms lb 60 75
Methyl bromide, service organization prices, 40 to 375-lb. cyls., large lots, frt. alld lb. .62 - .72
on 100 lbs lb. .73 - .79
Methyl cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works lb. .82 - —
50-lb bgs., 2,000-lb lots and more, same basis lb .89 - —
50-lb bgs. smaller lots, frt alld on 100 lbs lb 1.05 - —
Methyl cellulose, standard vis. (15,-400 cps.) 50-lb. bgs., c.l., frt. alld lb. .69 - —
50-lb bgs. 2,000-lb lots and more same basis lb. 76 —
50-lb bgs., smaller lots, frt. alld.
Methyl chloride, indust. cyls., frt. equald lb 22¼- —
tanks multi-unit, same basis. lb .16¼- —
tanks single unit, same basis. lb 12¾ —
Methyl chloride, refrigerant, mir cyls., drvd lb. .48¾- —
Other consumers of cyls., drvd lb 0¾ —
Methyl chloroform (see 1,1,1-Trichloroethane).
Methyl cinnamate, cns lb. 1.55 1.80
Methyl ethyl ketone, dms., c.l., drvd lb .15 - —
dms., t.c.l., drvd lb 16½- —
tanks, drvd. lb. 12½- —
2-Methyl-5-ethyl pyridine, dms., c.l., works lb. 45 —
dms., t.c.l., works lb 45¾- —
tanks, works lb. 43 —
Methyl formate, refd., dms lb. 35 .40
Tech. non-ret dms., any quantity works lb. 10 —
tanks, works lb. 07 - —
a-D Methyl glucoside, tech., 100-lb. multiwall paper bgs. c.l., works lb. .21 - —
100-lb. multiwall paper bgs., t.l., min 23,000 lbs., works. lb. 21½- —
100-lb multiwall paper bgs., l.t.l. works lb 23 —
Methyl heptin carbonate, bots lb. 27.75 - 31.00
Methyl p-hydroxybenzoate, bb dms lb 1.90 2.00
Methyl ionone, standard, cns, dms lb 3.40 3.85
Methyl isoamyl ketone, dms., c.l., drvd lb. 20 —
dms., t.c.l., drvd. lb. 20½- —
tanks, drvd lb. 17½- —
Methyl isobutyl carbinol (see Methyl amyl alcohol)
Methyl isobutyl ketone, dms., c.l., drvd lb .17 —
dms., t.c.l., drvd lb .18½- —
tanks, drvd lb. 14½- —
Methyl methacrylate, dms., c.l., t.l., frt equald. with Belle, W Va lb. .31 —
dms., smaller lots, same basis lb. 31½- —
tanks, same basis lb 29 —
Methyl naphthyl ketone, cryst., cns lb. 2.45 4.30
Methyl parahydroxybenzoate (see p-Hydroxybenzoate)
Methyl parathion, tech., 80%, dms., frt alld E lb. .84 - —
Methyl parathion prices 2c per lb higher in West
Methyl roseaniline chloride, NF., 5-lb fib dms lb 6.90 - —
Methyl salicylate, dms., t.l., frt. alld lb 60¼ —
dms., t.c.l. same basis lb. 62½ 67½
Methyl testosterone USP, 100-gram bots gram No Prices.
2-Methyl-5-vinyl pyridine, 40-dm lots or more, f.o.b. works lb. 1.32 - —
5-39 dm lots, same basis lb. 1.37 - —
tanks, same basis lb. 1.27 - —
Methyl violet toner, molybdated, PMA bbls., drvd E of Rockies lb. 2.95 - —
Tungstated PTMA, bbls., same basis lb 4.35 —
Methyl violet prices 1c higher W of Rockies
Methylene blue, fib, dms., 100-lb lots, frt. adjusted lb. 4.67 - —
Methylene chloride, tech. straight or assorted, dms. c.l. or t.l., drvd lb .13½- —
dms. t.c.l. t.t.l. drvd lb 15¾ —
tanks, 4,000-gal. min. drvd lb 12¼ —
tanktrucks 1,000-gal min. drvd. lb 13¼- —
b-Methylnaphthalene, 32°C., m.p., dms, works lb 90 —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-phenyl-3-methyl-pyrazolone-5)
Methylthionine chloride (see Methylene blue).
Mica, drv-grd, paint, plastic, 100 mesh, bgs., c.l., works lb. 04 - —
roofing, 20 to 80 mesh, works lb. 03 - —
wet-grd., biotite, bgs., c.l., works, frt alld.E lb 06½- —
bgs. t.c.l., ex-whse lb. 07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt alld E. lb. 08¼- —
bgs. t.c.l., ex-whse or freight alld E lb. 09 —
Mica, wet-grd., rubber, bgs., c.l., works, frt alld E lb. 08 —
bgs. t.c.l., ex-whse, or frt. alld E lb. 08¾- —
wallpaper, bgs., c.l. works, frt. alld.E lb. 08¾- —
bgs. ex-whse or frt alld E. lb .09 —
white, 5-10 microns, bgs., c.l., works, frt alld E lb. 08¼ —
Mica, wet-grd W of Miss ½c higher; W. of Rockies 1c higher

Microcrystalline wax, petroleum, coating grades, tankcars, works lb. .10 - .11
laminating grades, tankcars, works lb. .11 .12
Mineral black, bgs., works lb. .0160- .0673
Mineral oil, white, tech., 50-65 vis., non-ret. dms., c.l., f.o.b. refy gal. .68 - —
50-65 vis. non-ret. dms., t.c.l., basis gal. .70 - —
tankscars, refy. gal. .49 - —
Mineral oil, white, tech., 65-75 vis., non-ret. dms., c.l., same basis gal. .65 - —
non-ret. dms., t.c.l., basis gal. .70 - —
tankcars, refy gal. .49 - —
NF, 80-90% vis. non-ret. dms., c.l., same basis gal. .66 - —
non-ret. dms. t.c.l., same basis gal. .71 - —
tankcars, refy. gal. .50 - —
Mineral oil, white, NF, 135-138 vis., non-ret. dms., c.l., same basis gal. .72 - —
Mineral oil, white, NF, 135-138 vis., non-ret dms., t.c.l., same basis gal. .77 - —
tankcars, rfy gal. .56 - —
Mineral oil, white, NF, 145-155 vis., 5 non-ret. dms., c.l., same basis gal. .78 - —
non-ret dms., t.c.l., same basis gal. .83 - —
tankcars, refy. gal. .63 - —
Mineral oil, white USP, 180-190 vis., non-ret dms., c.l., same basis gal. .80½- —
non-ret dms., t.c.l., same basis gal. 85½- —
tankcars refy gal. 64½ —
Mineral oil, white, USP, 200-210 vis., non-ret. dms., c.l., f.o.b. refy gal. .82½- —
non-ret dms. t.c.l. gal. .87½- —
tankcars, refy gal. 66½- —
Mineral oil, white, USP, 340-350 vis., non-ret. dms., c.l., f.o.b. refy gal. .87½- —
non-ret dms., t.c.l. gal 92½- —
tankcars refy gal 71½ —
(For t.o.b N. Y add 2c for tankcars; 2c. for c.l. and 3c for t.c.l non-ret dms.).
Mineral orange, American, bbls., c.l., works lb. .16 - —
bbls., t.c.l., same basis lb. .17 - —
Mineral spirits, petroleum, odorless, tankcars New Jersey gal. .29 - —
New York gal. .305 - —
Houston, Texas gal. .25 —
regular, tankcars, New Jersey and New York gal. .18 —
Group 3 gal. .12875- —
Houston, Texas gal. .145 —
Mineral spirits, 140 F, flash, New York, New Jersey at terminal gal. .205 - —
Houston Texas gal. .17 - —
Mink oil, dms lb 2.75 - —
Mirbane oil (see Nitrobenzene).
MNPT maroon toner kgs., c.l., works lb 6.30 - —
Molasses, blackstrap, feed grade, tanks, New Orleans gal. .13 - —
tanks, New York gal. .14 - .14½
Molybdated orange bbls. lb. .49 —
Molybdenum metal, powd., 80 or 200 mesh, ctns., works kilo 7.84 - —
325 mesh, ctns., works kilo 9.13 - —
Molybdenum trioxide, purif., dms., works lb. 1.15 - —
Tech. chemical, dms., works, basis Mo content lb 1.48 - —
Tech., metallurgical, dms., works, basis Mo content* lb. 1.47 - —
Molybdic acid, 85% dms., works. lb 1.05 1.15
Monoallylamine, dms., c.l., drvd lb. .985 —
dms., c.l., drvd. lb. .995 - —
tanks, drvd lb. .96 - —
Monobutylamine, dms., c.l., drvd. E. of Rockies lb. .57½- —
dms., t.c.l., same basis lb. .59 - —
tanks, same basis lb. .55 - —
Mono-tert-butyl-m-cresol, dms., c.l., works lb. .55 - —
dms., t.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Monochloracetic acid, purif. (see Chloroacetic acid mono).
Monochlorobenzene, dms., c.l., frt. alld or drvd. E lb. .10¼- —
dms., t.c.l., same basis lb. .11½- —
tanks, same basis lb. .08¾- —
Monoethanolamine, dms. c.l., drvd. E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidine (see N-Ethyl-o-toluidine)
Monoisopropanolamine, dms., c.l., drvd. E lb. .27½- —
dms., t.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Monoisopropylamine, anhyd., dms., c.l., drvd lb. .33½- —
dms., t.c.l. same basis lb. .35 - —
tanks, same basis lb. .31 - —
Monomethylamine, anhyd., cyls., t.c.l., frt equald., 100% basis lb. .30 - —
tanks, 100% basis lb. .26 - —
30-35% soln., dms., c.l., frt. equald., 100% basis lb. .36 - —
Monomethylamine, 30-35% soln., dms., t.c.l., frt equald, 100% basis lb. .36½- —
tanks, frt equald., 100% basis. lb. .26 - —
40% soln. dms. frt equald., 100% basis lb. .33 - —
dms., t.c.l. frt equald., 100% basis lb. .33½- —
tanks, frt equald. 100% basis lb. .26 - —
Monopentaerythritol, tech., bgs., c.l., drvd E lb. .31 - —
bgs., t.c.l., drvd E lb. .32 - —
Monopotassium glutamate, dms., 1,000 lb lots, frt alld lb 3.05 - —
dms 100 lb lots same basis lb 3.25 - —
Monosodium glutamate, dms, drvd. lb 1.07 1.15
Monosodium phosphate (see sodium phosphate, monobasic)
Montan wax, Calif., refd., bgs lb. .27 .28
Imp., crude, Bohemian, bgs lb. .25 - .26
German, bgs lb. .25 - .26
Morphine, cns, 100-oz. f.o.b. works oz. 12.35 - —
Morphine hydrobromide, cns., 100-oz f.o.b works oz 9.90 - —
Morphine hydrochloride, NF, cns., 100 oz f.o.b works oz 9.90 - —
Morphine sulfate, USP, cns., 100-oz., f.o.b works oz 9.90 - —
Morpholine, dms., c.l., drvd. E lb. .55¼- —
dms., t.c.l., drvd. E lb. .56¼- —
tanks, drvd E lb. .52¾- —
Muriatic acid (see Hydrochloric acid).
Musk, syn., ambrette, fib. dms., 100-lb lots lb 4.40 4.90
cns., 25-lb lots lb 4.50 5.00
Ketone, fib. dms., 100-lb lots lb 4.60 5.10
cns., 25-lb lots lb 4.70 5.20
Xylol, fib. dms., 100-lb lots lb 1.26 —
cns., 25-lb lots lb 1.40 —
Mustard seed, Danish, yellow, bgs. lb. .12 - —
Montana, yellow, bgs lb 10½- —
Oriental, bgs lb 08 —
Mustard oil syn. bots lb 1.60 1.85
Myristic acid, bgs. lb. .25¼- .27¾
tanks lb. .24¼- —
Myrrh gum, cs lb. 65 .75

N

Naphtha, high solvency (see Solvent naphtha, petroleum).
Naphtha, petroleum, cleaner's (see Cleaner's naphtha).
Naphtha, VM&P, petroleum, tankcars, New Jersey and New York gal. .19 - —
Group 3 gal. .13875- —
Houston, Texas gal. .155 —
Naphthalene, crude, dom 78°, tanks, frt. equald lb .06 - —
imp., 78° bgs., large lots lb. 09½ Nom.
Refd., indust., chipped, crushed, bgs, frt equald lb. .13½ —
tanks, same basis lb. 10¾- —
Naphthalene, refd., indust., balls, flakes, wholesalers, jobbers, bbls., c.l. same basis. lb. .15½- —
cs., 50 lbs., c.l., same basis. lb. .15¾- —
1-lb pkgs. c.l., same basis. lb. .18½- —
a-Naphthol, dms, frt. alld lb. 1.02 - —
b-Naphthol, tech. flake bbls., c.l., works lb. .34 - —
bbls. t.c.l., works lb. .36 - —
Naphthol (TR reo toner), bbls. works lb 5.00 - —
1-Naphthol-3,6-disulfonic 8-amino acid (see H acid)
1-Naphthol-4 sulfonic acid (see Neville and Winther's acid)
1-Naphthol-5-sulfonic acid (see L acid)
1-Naphthol-5-sulfonic 6-amino acid (see S acid)
2-Naphthol-6,8-disulfonic acid (see Gamma acid).
Naphthol sulfonic mixed acid (see Cleve's acid)
a-Naphthylamine, dms., frt. alld lb. .82 - —
b-Naphthylamine tech. flake bbls., works lb 1.00 - —
1-Naphthylamine-5-sulfonic acid (see Laurent's acid)
2-Naphthylamine-4,8-disulfonic acid (see Cassella acid)
2-Naphthylamine-1-sulfonic acid (see Tobias acid)
2-Naphthylamine-6-sulfonic acid (see Broenner's acid)
2-Naphthylamine-7-sulfonic acid (see F acid)
Naringin, fib dms lb. 8.50 —
Neatsfoot oil, 15° cold test, dms lb 29 Nom.
20 cold test dms. lb. 28 Nom.
30 cold test. dms. lb. 27 Nom.
Neocinchophen USP dms., frt. adjusted lb. 7.00 8.00
Neomycin sulfate fib dms. 1-kilo basis activity gram. .25 —
fib dms. 100-999-gram lots, basis activity gram. .30 - —
Tech., fib dms gram. 13½- —
Neopentylglycol dms., c.l., drvd lb. .32 - —
dms. t.c.l. same basis lb .33 - —
Nerol, dms. lb 4.75 —
Neroli oil, NF, French, bots lb. 425.00 -575.00
Tunisian, bots lb. 400.00 —
Nerolin, cns. lb 2.45 2.85
Neville and Winther's acid, dms., frt alld lb. 1.40 - —
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., drvd lb. .68½- .75½
Nickel carbonate bbls., drvd lb. 78¼- .85¼
Nickel chloride, bbls., drvd lb. .37 - .45
Nickel formate, bbls., ton lots, frt. alld lb. .72 .73
Nickel metal, electro cathodes, cs., works lb .74 —
Nickel nitrate, dms., frt. alld lb. .31½- .33½
Nickel oxide, black, bbls. lb. .85 - —
Green, bbls lb. .84 - —
Nickel sulfate, bgs., c.l., drvd lb. .28 - —
bgs., l.c.l., drvd lb. 28½- .36
Nicotinamide, USP, 50-kilo, dms., 100 kilos., drvd kilo. 5.75 - 6.50
dms. less than 100 kilos, drvd kilo. 6.25 - 7.00
Nicotinamide hydrochloride, 50 kilo dms., 100 kilos., drvd kilo. 5.75 - —
Nicotine sulfate 40%, dealers, 50-lb. dms frt alld lb 1.20 - —
40% manufacturers, 500-lb. dms., frt alld lb 1.05 - —
Nicotinic amide, USP (see Nicotinamide)
Niger seed, bgs. lb 10¼- —
Nikethamide, cbys. lb 5.00 —
Nitric acid, 36° Be., cbys., c.l., works E 100 lbs. 5.75 —
cbys., t.c.l., works E 100 lbs. 6.05 6.85
38° Be., cbys., c.l., works E 100 lbs 6.25 —
cbys., t.c.l., works E 100 lbs 6.55 7.35
40° Be. cbys. c.l., works E. 100 lbs 6.75 —
cbys., t.c.l., works E 100 lbs 7.05 7.85
42° Be., cbys., c.l., works E. 100 lbs 7.25 —
cbys., t.c.l., works E 100 lbs. 7.55 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs 4.90 - —
Nitric acid, CP, NF, consumer, cbys., extra, c.l., works lb. .18½- —
cbys. extra t.c.l. works lb. .20 - —
5-pint bots. extra, cs. c.l., same basis lb. 22½- —
5-pint bots. extra, cs. t.c.l., same basis lb. .24 .25
dms. frt alld lb. .99 - —
4-Nitro-2-aminophenol, tech., paste, dms., l.c.l., works lb. .64 - —
m-Nitroaniline, cryst., dms., frt. alld lb. 1.15 - —
Paste dms. frt alld. 100% basis.
o-Nitroaniline, flaked, dms. t.l., frt. alld lb. .49 - —
dms. t.t.l. frt alld lb. .51 - —
o-Nitroaniline orange toner kgs. 1.50 - —
p-Nitroaniline, c.l., t.l., dms., 20,000 lb. min., drvd lb. .44½- —
dms. t.c.l., same basis lb. .46½- —
o-Nitroanisole tech. tanks, frt alld. lb. .36 - —
p-Nitroanisole, tech., solid, dms., frt alld lb. .72 - —
Nitrobenzene, dbl dist., dms., c.l., frt alld lb. .13 —
dms., t.c.l., frt. alld. lb. .14 - —
tanks, frt alld lb. .12 - —
p-Nitrobenzoic acid, dms., c.l., works lb. .63 - —

Nitrocellulose, ester-soluble, 20-30 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175 seconds, bbls., c.l., works lb. .37½- —
bbls., t.c.l., same basis lb. .33½- .40¼
18-20, cps., bbls., c.l., same basis lb. .39½- —
bbls., t.c.l., same basis lb. .40½- .43¼
250-400, 600-1,000 seconds, bbls., t.c.l., same basis lb. .43 .48
Nitrocellulose, spirit soluble, 30-35 cps. ¼, ½ seconds, bbls., c.l., same basis lb. .43 —
bbls., t.c.l., same basis lb .44 .46
5-6 cps., 40-60 seconds, bbls., c.l., same basis lb. .42 —
bbls. t.c.l., same basis lb .43 .45
Denatured alcohol used in the manufacture of nitrocellulose is charged extra Drums extra but returnable
o-Nitrochlorobenzene dms. c.l., frt. alld lb .15 —
dms., t.c.l., same basis lb .16 —
tanks, same basis lb .13 —
p-Nitrochlorobenzene dms. lb .26 .27
2-Nitro-p-cresol, tech., dms., drvd lb .88 —
Nitroethane, dms. c.l. drvd E lb .25 —
dms., t.c.l., drvd E lb 28½ —
tanks, drvd E lb 22½ —
Nitroethane prices West of Rockies are 1c. higher
Nitrogen solutions, direct application, tanks, f.o.b. works ton.164.00 - —
Manufacturing type, same basis. ton.132.00 - —
Nitrogen tetroxide, indust., tankcars, f.o.b Hopewell, Va lb. 065 —
Cyls. t.l., min 5 tons, same basis lb. 07½ —
Cyls., t.c.l., t.t.l. same basis lb. .15 —
Nitrogenous process tankage, bulk, works unit-ton 4.50 5.00
Nitrogenous sewage sludge, bulk, f.o.b Chicago works unit-ton. 3.50 - —
Nitromethane, dms, t.l., drvd. E lb .25 —
dms. t.t.l. drvd E lb 26½ —
Nitromethane prices West of Rockies are 1c higher
a-Nitronaphthalene, bbls. frt. alld. lb .31 - —
o-Nitrophenol, dms., works, frt. equald lb. .94 - —
p-Nitrophenol, dms. c.l., frt alld. lb .45 - —
dms. t.c.l. frt alld lb. .47 —
1-Nitropropane, dms. c.l., frt. alld. E of Rockies lb. 23½- —
dms., t.c.l., same basis lb. .25 —
tanks, same basis lb. .21 —
2-Nitropropane, dms. c.l., frt. alld. E of Rockies lb. .18½- —
dms., t.c.l. same basis lb. .20 —
tanks, same basis lb 16 —
Nitropropane prices West of Rockies are 1c. per lb higher
m-Nitrotoluene tech. dms. frt. alld. lb. .50 - —
o-Nitrotoluene, dms. c.l., frt. alld lb .15 - —
dms. t.c.l., frt alld. lb. .16 - —
tanks, frt alld lb. .13 —
p-Nitrotoluene, tech., cast, dms., c.l., works lb. 27½- —
dms. t.c.l. works lb. .28 —
flake, dms., c.l., t.l., works lb. 27½- —
dms. t.c.l. works lb .28 —
m-Nitro-p-toluidine, dms. lb. 1.25 —
Nonylphenol, dms. c.l. frt. alld. lb. .22½- —
dms., t.c.l., frt. alld. lb. .23½- —
tanks, frt. alld lb. .20 —
Nonylphenol prices on shipments to Western States are 2c. higher.
Nutmegs, East Indian, whole, bgs. lb. 1.40 - —
West Indian, bgs. lb. 1.26 - 1.28
Nutmeg oil USP, dist., East Indian, cns lb 9.00 -12.00
West Indian, cns. lb 9.00 -12.00
Nux vomica, bls. lb. .20 —
Powd., bbls., bxs. lb. .20 .23

O

Ocher (see Iron oxide yellow, nat.).
Ocotea cymbarum oil, dms lb. .46 - .48
Octane, indust., tanks, Bayonne, N.J. gal. .20 - —
1-Octanol, tech., dms., c.l., drvd., Zone 1 lb. .43½- —
dms., t.c.l., drvd. Zone 1—lb. .45½- —
tanks, drvd., Zone 1 lb. .41 - —
Octyl alcohol, perfumers grade, bots. lb. 1.60 - 3.25
Octyl alcohol, tech, (see 1-Octanol, tech).
tert-Octylamine, dms., c.l., t.l., f.o.b. works lb. .54½- —
dms t.c.l. same basis lb 55 —
Octylphenol, bgs., c.l., works lb. .22½- —
bgs., t.c.l., works lb. .23 - —
tanks, works lb. .21½- —
Octylphenol in dms., 11c. higher.

OILS
Oil quotations are listed individually. For example, prices on Oil, coconut, may be found in the C's under Coconut oil.

Oiticica oil, liq., dms lb. .14¼- .14¾
tanks lb. .12¾- —
Oleic acid, dbl.-dist. (white), dms. lb. 17 - .19½
tanks lb. .14½- —
S. D., dms. lb. .16 - .18½
tanks lb. .13½- —
Oleum (see Sulfuric acid, fuming).
Olibanum gum, siftings, cs lb. .15 .20
Tears, cs. lb. 22 .30
Olibanum oil, bots lb. 5.00 - 7.65
Extra fine, bots lb. 8.00 - 9.50
Olive oil, edible, dms., spot, duty-paid gal. 2.35 - 2.40
Olivine, crude, works ton.12.00 - —
20 mesh, works ton.15.00 - —
100 mesh works ton.20.00 - —
Opium, USP, cns., 25-lbs., f.o.b. works oz.19.20 - —
gran., cns., 50 lbs., same basis oz.21.65 - —
powd., cns., 50 lbs., same basis. oz.21.65 - —
Orange oil, expressed, USP, Calif., cns., dms lb. .70 - .90
Calif., sweet., cns., dms lb. .60 - —
Florida, cns., dms lb. .0 - .45
Messina, cns. lb. 3.25 5.00
West Indian, bitter, cns., dms., lb. 2.30 - 3.50
Orange peel, bitter, Haitian, bls lb. 18 .20
Sweet lb. .28 .30

ORANGE PIGMENTS
Orange pigment quotations are listed individually. For example, prices on Orange, chrome, may be found in the C's under Chrome orange.

Origanum oil, Spanish, cns. lb. 1.80 2.30
Orris root, Florentine, bls. lb. .50 —
powd., bbls., bxs lb .65 - —
Verona, bls lb. .35 - —
powd., bbls., bxs lb. .45 - —

Orthoanisidine (see o-Anisidine).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)
Orthochloroaniline (see o-Chloroaniline).
Orthochlorobenzoic acid (see o-Chlorobenzoic acid).
Orthochloroparanitroaniline (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthocresotinic acid (see 2,3-Creosotic acid).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroaniline (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitroparachlorophenol (see 2-Nitro-4-Chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthophenetidine (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary amylphenol (see o-tert-Amylphenol)
Orthotolidine (see o-Tolidine base)
Orthotoluidine (see o-Toluidine)
Ouabain USP bots gram 3.00 4.00
Ouricury wax, crude, bgs. lb. .54 .55
Refd. pure, bgs. lb. .60 .62
Oxalic acid, bgs., c.l., works lb .18 —
bgs., 10,000-lb. lots, works lb .19 —
bgs., smaller lots, works lb. .20½ —
Oxalic acid in drums is priced ½c. per lb higher.
8-Oxynaphthoic acid pigment manufacture, dms., frt alld lb. .912 - —
Dyestuff manufacture dms., same basis lb 1.03 1.14
Oxyquinolin sulfate, cns., 100-lb lots, works lb 4.75 5.00
cns., smaller lots, works lb 4.92 5.17

P

Palm oil, clarif., dms lb. .1400- .1500
tanks lb. .11¼- —
Palm oil acid, double dist., dms. lb. .15¾- .17¾
single dist., dms lb. .14¾- .17¼
tanks lb. .12¼- —
Palmarosa oil, cns lb. 4.90 6.00
Papain, powd. bots. lb 5.50 10.00
Papaverine hydrochloride, nat. or syn. USP cns., 25-oz. to 100-oz. lots oz 5.00 - —
cns., smaller lots oz 5.05 5.20
Papaverine sulfate, nat. or syn. USP, cns oz 7.10 7.35
Paprika, Bulgarian, bgs. lb. .27 - —
Hungarian, bgs. lb .29 - —
Spanish, bgs. lb. .30 - —
Yugoslavian, bgs. lb. .31 - .37
Para-aminobenzoic acid (see p-Aminobenzoic acid)
Parachlorobenzoic acid (see p-Chlorobenzoic acid)
Paramethylphenylcinchonic acid (see Neocinchophen).
Paranitroberzoic acid (see p-Nitrobenzoic acid).
Paratoluidinemetasulfonic acid (see p-Toluidine-m-sulfonic acid).
Para-aminophenol (see p-Aminophenol).
Parachlorophenol (see p-Chlorophenol).
Parachloro-orthonitroaniline (see 4-Chloro-2 nitroaniline).
Para-anisidin (see p-Ansidine)
Parachloraniline (see p-Chloraniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Para toner, red, bbls lb. 1.30 - —
Chlorinated, kgs. lb. 1.41 - —
Paraffin, crude, scale, white, 123°-127°F., ASTM, tanks, refy. lb. .0653- —
Paraffin, fully refd., 122°-124°F., ASTM, tanks, refy lb. .0765- —
125°-127°F., ASTM, tanks, refy. lb. .0765- —
130°-132°F., ASTM, tanks, refy. lb. .0765- —
Paraffin, fully refd., 132°-134°F., ASTM, tanks, refy lb. .0765- —
135°-137°F., ASTM, tanks, refy. lb. .0765- —
AMP temperatures are an arbitrary 3°F higher than ASTM.
Paraffin oil, pale, 100-110 vis., at 100°F., tanks east coast refy gal. .14 - —
Paraffin wax (see Paraffin)
Paraformaldehyde 91% flake, bgs., c.l., frt. alld lb. .10 - —
bgs., l.c.l., frt. alld lb. .12 - .13
91%, powd., bgs., c.l., ex whse. lb. .1715- —
bgs., l.c.l., ex whse lb. .1865- —
USP-X, fib dms., c.l. lb. .19 - —
fib dms., 1,000-lb. lots lb. .20 - —
fib dms., smaller lots lb. .21½- —
Paraldehyde tech., 98%, 55-gal. dms., t.l., dlvd lb. .14 - —
55-gal. dms. l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .11½- —
Paranitroaniline (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene)
Paranitrotoluene (see p-Nitrotoluene).
Paranitrophenol (see p-Nitrophenol).
Paraphenetidine (see p-Phenetidine)
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol)
Para-tertiary butylphenol (see p-tert-Butylphenol)
Parathion ethyl, dms., frt. alld lb. .84 —
Parathion prices 2c. per lb. higher in West.
Paratoluenesulfonamide (see p-Toluenesulfonamide).
Passion flower herb, bls lb. 35 40
Patchouli oil, imp., cns. lb. 5.60 6.50
Peach kernel oil USP (see Apricot kernel oil).
Peacock blue, fugitive, 100% color strength, 250-lb. bbls., dlvd E of Rockies lb. 1.00 —
Peacock blue price 1c. higher W. of Rockies.
Peanut meal, old process, 45%, bgs., f.o.b., mills ton.55.00 - —
solvent, same basis ton.52.00 - —
Peanut oil crude, tanks, f.o.b. mills. lb. .12¾- —
Refd., dms. lb. .18 - .18¼
tanks lb. .16 - —
Pectin, dom., NF, citrus, powd., 100 kilos, f.o.b. shipt. pt kilo. 4.52 - —
Pelargonic acid, dms., c.l., dlvd lb. .25 - —
ton lots, same basis lb. .27½- —
tanks, same basis lb. .23½- —
Penicillin, potassium, cryst., bulk, 1,000,000 units. .18 - —
Penicillin, procaine, cryst., bulk, 1,000,000 units. .20 - —
Pennyroyal oil USP, imported, cns. lb. 1.95 2.70
Pentachlorophenol, bgs., c.l., t.l., works, frt. equald lb. .21 - —
bgs. l.c.l., same basis lb 22½- .29
Pentachlorophenol in dms. 1c. higher.
Pentaerythritol, tech., bgs., c.l., dlvd lb. .31 —
bgs. t.c.l., dlvd lb 32 —
Pentaerythritol, di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane indust. tanks, Tex refy. gal. .14 - —
Pentobarbital, dms., 100 lbs. or more lb. 6.00 - —
Pepper, black, Malabar, bgs. lb. .44 - —
Lampong, bgs. lb. .44 - —
Red, Puntuas, bgs. lb. .32 - —
Japanese Hontoka, bgs. lb .37½- —
Santaka, bgs. lb .31½- —
Sudanese, bgs. lb. .36 - —
White, Muntok, bgs lb. .74 - —
Peppermint leaves, dom., USP, bls., dms lb. No stocks.
imp., USP, dms lb. .80 - .85
Peppermint oil, nat., dms. lb. 5.00 - 5.50
Redist., USP, dms lb. 5.50 - —
Perchloroethylene dms. c.l., or t.l., dlvd lb. .13½- —
dms., l.c.l., dlvd. lb. .15¼- —
tanks, dlvd. lb. .11¾- —
tanktruck, 1,000 gal. min. dlvd lb .12¼- —
Peri acid, dry bbls., frt. alld lb. 1.60 —
Paste, bbls frt alld lb 1.55 —
Peru balsam, dms. lb 1.10 1.50
Persic oil USP (see Apricot kernel oil).
Petitgrain oil South American, cns., dms lb. 2.30 - —
Petrolatum, cream, dms., c.l., refy. lb. .08125- —
dms., l.c.l., dlvd. lb. .10125- .11375
tanks, refy lb. .05875- —
Extra amber, dms., c.l., refy lb. .07125- —
dms., l.c.l., dlvd. lb. .09125- .10375
tanks, refy. lb. .04875- —
Petrolatum, lily white, dms., c.l., refy lb. .08625- —
dms., l.c.l., dlvd. lb. .10625- .12
tanks, refy. lb. .06735- —
USP, snow white, dms., c.l., refy. lb. .09125- —
dms., l.c.l., dlvd lb .11125- .125
tanks, refy. lb. .06875- —
Petrolatum, USP, soft yellow, dms., c.l., refy lb. .07125- —
dms., l.c.l., dlvd. lb. .095 - .10375
tanks, refy lb .04875- —
Petroleum pitch (see Asphalt, petroleum)

PETROLEUM PRODUCTS

Petroleum product quotations are listed individually. For example, prices on Petroleum, mineral spirits, may be found in the M's under Mineral spirits, petroleum.

Petroleum sulfonate, oil soluble, 60-62% sulfonic content, non-ret dms., c.l., works. lb. .16½- .18¾
non-ret dms., l.c.l., works lb .17½- .19
tanks, works lb. .14½- .17
50-55% sulfuric content, non-ret. dms., c.l., works lb. .16 - —
non-ret. dms., l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., c.l., frt. alld. E lb .91 - —
dms., l.c.l. same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.05 - —
dms. same basis lb 1.08 - —
Phenobarbitol, USP, dms., 100-lbs., frt. alld lb. 3.25 - —
Phenobarbital-Sodium (see sodium phenobarbital)
Phenol, 90-92% (cresol 8-10%), non-ret dms., frt alld E of Rockies lb. .16¾- —
non-ret. dms. l.c.l., same basis. lb. .17¾- —
tanks, same basis lb. .14¾- —
82-84% (cresol 16-18%) non-ret. dms., c.l., same basis lb. .16¼- —
non-ret dms., l.c.l., same basis. lb. .17½- —
tanks, same basis lb. .14½- —
30°C., or above, tar dist., non-ret. dms., c.l., same basis lb. .18 - —
Phenol, 30°C., or above, tar dist., non-ret dms. l.c.l. same basis lb .19 - —
tanks, same basis lb. .16 - —
USP, syn. dms., c.l., t.l., frt. alld lb. .18½- —
dms., same basis lo. .20½- —
tanks, same basis lb. .16½- —
Phenolphthalein, USP or yellow, 250-lb dm., 2,000 lbs., frt. alld lb. 1.30 - —
250-lb dm., same basis lb 1.35 - —
Phenothiazine drench fib dms., t.l., dlvd lb. .46 - —
fib. dms., ton lots, dlvd lb. .49 - —
NF, fib. dms., t.l., dlvd lb. .45 - —
fib. dms., ton lots, dlvd lb. .48 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Phenyl salicylate (see Salol)
Phenylacetaldehyde, soln., 50%, bots lb. 2.15 - 2.35
100%, bots. lb. 3.80 - 4.00
Phenylacetic acid, pure, cryst., cns lb. 1.25 1.75
dl-Phenylalanine, dms., works lb. 27.00 -37.50
l-Phenyl-3-carbethoxy pyrazolone-5, fib dms., 200-lb lots, dlvd. E lb. 3.45 - —
fib dms., smaller lots, dlvd E lb. 3.80 - —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb .41 - —
dms., l.c.l., dlvd. E. lb. .42½- —
tanks, dlvd E lb. .38½- —
m-Phenylenediamine, dms., c.l., t.l., frt. alld lb. 1.08 - —
l.c.l., l.t.l., same basis lb. 1.10 - —
o-Phenylenediamine, comi., fib. dms, 100 to 1,000 lbs., works. lb. 1.70 - 1.80
p-Phenylenediamine, tech., dms, works lb. 1.55 - —
Phenylethanolamine, dms., c.l., works lb. .75½- —
dms. l.c.l., same basis lb. 77 —
Phenylethyl acetate, bots. lb. 1.25 1.40
2-Phenylethyl alcohol, extra, dms. lb. 1.14 1.50
Standard, dms lb. 1.10 1.60
b-Phenylethylamine, dms., 20,000 lbs. or more, frt. alld lb. 1.50 —
dms. smaller lots, frt alld lb. 1.70 1.85
Phenylethylphenyl acetate, bots lb. 4.00 4.25
Phenylglyconic acid (see Mendelic acid).
Phenylhydrazine 97%, 450-lb. dms. lb. 1.43 - —
1-Phenyl-3-methyl pyrazolone-5, fib. dms., 250-lb. lots, dlvd E. lb. 1.80 - —
fib. dms., smaller lots, dlvd E lb. 2.10 - —
o-Phenylphenol dms., l.c.l., works. lb. .48 .50
p-Phenylphenol, bgs., c.l., works lb. .38½- —
bgs., l.c.l., works lb. .43 —
Philippine copal gum, pale, chips, bgs lb. .23¾ .26
nubs, bgs. lb. .33¼ .37
seeds, bgs. lb. .20 Nom.
sorts, bgs. lb. .20 .24
Phloroglucinol, comi., fib dms., works lb 6.40 - —
CP, bots., works lb. 17.75 - —
Tech. fib dms. works lb. 10.45 - —
Phloxin red toner (see Eosin red toner)
Phosgene, ref. cyls works lb 15½- —
Phosphate defluorinated (see under D)
Phosphate rock, Curacao, Atlantic ports, New Orleans ton. 46.50 - —
Phosphate rock, Florida, land pebble, run-of-mine, washed, dried, unground, 66-68%, b.p.l., bulk, c.l., mines. short-ton. 4.989 - 5.398
66-70%, b.p.l., bulk, c.l., same basis short-ton. 5.849 5.858
70-72%, b.p.l. bulk, c.l., same basis short-ton. 6.429 - 6.438
Phosphate rock, Florida, land pebble, run of mine, washed, dried, unground 74-75%, b.p.l., bulk, c.l., same basis. short ton. 7.329 - 7.338
76-77%, b.p.l., c.l., bulk, same basis short-ton. 8.219 - 8.228
Above Florida prices are based on fuel oil at 2.32 per bbl. and labor at $1.64.
Phosphoric acid, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 7.00 - —
cbys., l.c.l., same basis 100 lbs 7.25 7.75
tanks, t.w., works 100 lbs. 5.60 —
80% cbys., c.l. frt equald 100 lbs. 7.85 —
cbys., l.c.l., works 100 lbs 8.10 9.35
tanks, t.w., works 100 lbs 6.00 —
NF 85% cbys., c.l., works. 100 lbs 8.50 —
cbys., l.c.l., works 100 lbs 8.75 9.00
tanks, t.w., works 100 lbs 6.65 —
Phosphorus, amorph., red, dms., t.l., works lb. .55 - —
dms., smaller lots, works lb. .56 - .57
white (yellow), solid dms., c.l., works, frt. equald lb. .20 .20½
dms., l.c.l., works, frt. equald lb. .21½- —
tanks, works, frt equald. lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
dms., l.c.l., works lb. .15 - —
tanks, works, frt. equald lb. .12½- —
Phosphorus pentasulfide, powd., dms., c.l. works lb. .13½- —
dms. l.c.l. works lb. .14½- .15½
Solid, dms., c.l., works lb. .11½- —
dms. l.c.l., works lb. .12½- .13½
Phosphorus pentoxide, dms., c.l., works lb. .1375- .1475
dms. l.c.l. works lb. .1475- .1675
Phosphorus sesquisulfide, dms., cs., c.l., works lb. .38 —
dms. l.c.l. works lb. .39 .40
Phosphorus trichloride, dms., c.l., works lb. .14 —
dms., l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Phthalic anhydride bgs. c.l., works, frt. equald lb. .19 .23
bgs. l.c.l., same basis lb. .20 .24
tanks, same basis lb. .18½- .22½
Phthalimide 97-98% dms., frt. alld lb .65 —
Phthalocyanine blue, full strength, bbls, dlvd E of Rockies. lb 2.90 - —
Resinated, bbls., same basis lb 2.75 - —
Water dispersable, bbls., same basis lb 1.52 —
Phthalocyanine blue prices 1c. higher W. of Rockies
Phthalocyanine green toner, bbls., works lb 3.35 - —
Resinated, bbls lb 3.00 - —
Water dispersable, bbls lb 1.71 - —
Phthalocyanine green prices 1c higher W of Rockies
Phthalylsulfacetamide, fib. dms., 1,000-lb lots or more lb 5.00 —
NF fib. dms lb 5.20 —
a-Picoline dms. c.l. works, frt. equald lb. .46 .48
dms., l.c.l., works, frt. equald lb .46½- .49
tanks, same basis lb. .43 .46
b-Picoline 98% dms., t.l., works lb 1.05 —
dms., l.c.l. same basis lb 1.15 - —
tanks, same basis lb. .95 - —
b,g-Picoline 5°C dms., c.l., works. lb. .32½- —
dms., l.c.l., works lb .33 - —
g-Picoline, dms, t.o.b., works lb 1.60 - —
tanks, t.l. same basis lb 1.50 - —
Picric acid, NF bbls. lb .85 - —
Tech., bbls. lb. .44 - —
Pigment green B, kgs lb. 1.55 - —
Pilocarpine hydrochloride, USP, bots oz. 5.25 - —
Pilocarpine nitrate USP bots., vials. oz 5.15 - —
Pimento, Jamaincan, bgs. lb. .68½- —
Mexican, bgs lb. .56 —
Pimento berry oil NF dms. lb 3.75 9.25
Pimento leaf oil, crude, cns lb. 2.40 - 2.60
Pine oil, dest.-dist dms., l.c.l., works lb. .15 —
dms. l.c.l. ex whse New York. lb. .173 - —
Steam-dist. dms. ex whse., New York lb. .185 - —
dms. dlvd lb 188 —
Pineneedle oil Siberian (see Abies Sibirica oil).
Pink root, bls. lb. 2.25 - —
Piperazine anhyd. dms. c.l., frt. alld lb 1.80 —
dms., l.c.l., same basis lb 1.85 - —
Piperazine citrate, 36% dms., 1,000 lbs or more frt alld lb. 1.15 - —
Piperazine dihydrochloride, 51%, dms. 1,000 lbs or more, frt alld lb .1.23 - —
Piperazine hexahydrate, 44% dms., 1,000 lbs or more, frt. alld lb. .86 - —
dms. 200-900 lbs. frt alld lb. .89 - —
Piperazine phosphate, 42% dms., 1,000 lbs or more, frt. alld lb 1.06 - —
Piperidine, dist., 98% min., dms., c.l. t.l. frt. equald lb 2.55 —
Piperonyl butoxide dms. dlvd E lb 4.50 5.05

PITCHES

Pitch quotations are listed individually. For example, prices on Pitch, soybean, may be found in the S's under Soybean pitch.

Platinum metal, works oz. 81.00 -85.00
Pleurisy root, bls. lb 45 .50
Podophyllum resin, NF, dms. lb. 12.50 —
Poke root, bls. lb. .19 .22
Polymyxin, bots., bulk., 50 billion units or more 1,000,000 units. .52 - —
bulk, bots., 25-50 billion units. 1,000,000 units. .54 - —
bulk, bots., 1-25 billion units. 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works. lb. .44 - —
dms. smaller lots, works lb. .47 .49
Polyoxyethylene sorbitan tristearate, dms., 20,000-lb lots, works lb. .42 - —
dms., 10,000-20,000-lb. lots, works lb. .44 - —
dms., smaller lots, works lb. .47 .49
Pontianak copal gum, chips, bgs lb. .25 —
Nubs, bgs lb. .37 .40
Poppy seed, Argentine, bgs. lb. No stocks.
Dutch, bgs. lb. .16 - —
Danish, bgs. lb. .15 - —
Polish, bgs. lb. .16 - —
Turkish, bgs. lb. .12 - —
Potash caustic, liq. 45% basis dms., c.l. works 100 lbs 4.25 —
dms., l.c.l., same basis 100 lbs. 5.25 - —
tanks, same basis 100 lbs 3.70 - —
reg., flake, 88-92% dms., c.l., same basis 100 lbs. 9.53 - —
Potash, reg., flake, 88-92%, dms., l.c.l., same basis 100 lbs. 11.05 - —
solid, 88-92% dms., c.l., works 100 lbs 9.10 - —
dms. l.c.l., works 100 lbs. 10.60 - —
Potassium acetate, NF, 200-lb dm., f.o.b. works, E lb .31 —
Potassium bicarbonate, USP, gran dms lb .22 - —
powd., dms lb .24 —
Potassium bichromate, gran., bgs., c.l., t.l., works lb 18 —
bgs. l.c.l. works lb 18½ 19¾
Potassium bichromate in dms ¾c higher
Potassium bitartrate, NF, gran., powd. 100-lb bgs., c.l., frt equald lb. .37 —
100-lb bgs. 5,000 lbs. 1 shipt., same basis lb .38 —
100-lb bgs. smaller lots, same basis lb 40 —
Potassium borohydride powd., dms., works lb 16.00 - 22.00
Pelletized potassium borohydride $1.25 per lb. higher in 1,000-lb lots
Potassium bromate, 200-lb. dms., c.l., frt. alld lb. .49 - —
Potassium bromide USP gran., bbls., kgs lb. .39 .40
Potassium carbonate, dom. NF, gran. bbls. dms lb .20 —
Dom. tech. powd., bbls. dms lb .21 .22
Dom. calcinated bgs. c.l. works 100 lbs. 8.50 —
bgs., l.c.l. same basis 100 lbs. 9.55 —
Dom. hydrated 83-85%, bgs., c.l., works 100 lbs 7.10 - —
bgs. l.c.l. works 100 lbs 8.15 —
Potassium chlorate cryst. dms., c.l., works lb. .12¼ —
dms., l.c.l., works lb. .13½ .14½
Powd., dms., c.l., works lb. .12¾ —
dms. l.c.l. works lb. .14 .15
works lb. .12¼ —
Potassium chlorate, NF cryst., dms. 2,000 lbs or more, works lb. .16¾ —
NF, gran., 25-lb metal dms lb. .36 —
NF powd., dms., 2,000 lbs. or more, works lb. .17¼ —
Potassium chloride indust., 99.9% KCL, bulk, c.l., works ton 29.00 —
bgs., c.l., works ton —
99.3% KCL bulk, c.l., works ton. 28.00 —
bgs., c.l., works ton 30.00 - —
USP cryst. dms. lb 20 .22
USP gran. dms. lb 21 .23
USP powd. dms. lb 24 .26
Potassium chloride agricultural (see Potassium muriate)
Potassium chromate, tech., dms., works lb. .50 .51
Potassium citrate, NF gran. 250-lb. dms., f.o.b. works E lb. .43 —
powd. 250-lb dms. same basis. lb. .46 —
Potassium cyanide dms. 20,000-lb. lots or more works lb 42½ —
dms. 2,000 19,999 lb lots works. lb. .43 —
dms. smaller lots, works lb 44 44½
Potassium dichromate (see Potassium bichromate).
Potassium ferricyanide dms., ton lots, works lb 50 —
dms. smaller lots works lb. 65 —
Potassium ferrocyanide, dms., ton lots lb 24½ —
dms. smaller lots lb 29 —
Potassium fluoborate fib dms. c.l., works lb 30 —
fib dms. l.c.l. works lb .31 —
Potassium fluoride, dms., works lb. .36 - .37
Potassium gluconate, 100-lb dm. f.o.b works E lb 1.67 —
Potassium guaiacol sulfonate, NF, dms lb 2.10 2.30
Potassium hydroxide, tech (see Potash caustic).
Potassium hydroxide, USP, pellets, 100 lb dms 1 to 100-dm. lots lb 33½ .38
Potassium hypophosphite, NF fib dms 1,000 lb. lots lb. 1.38 —
Potassium iodide USP cryst. gran., dms., 500-lb., f.o.b. works. lb. 1.55 - —
Potassium manure salt, min 20% K2O, bulk, c.l. works, unit-ton. .17 .1768
Potassium metabisulfite, gran. dms., lb. .16 —
Powd., dms lb. .27 —
Potassium muriate, standard, bulk, c.l., works, unit-ton. .37½- .39¼
bagged 60% minimum K_2O, same basis ton. 25.60- .27.80
Gran., bulk, c.l., works, unit-ton. .38½- .40⅛
bagged, 60% minimum K_2O, same basis ton. 28.10 -30.10
Inside prices apply to material contracted for prior to July 1, 1960.
Outside prices apply to material contracted for after that date but also for delivery during the current month
Potassium nitrate, NF, cryst., bbls., 20-ton lots 100 lbs 17.00 —
bbls., smaller lots 100 lbs 18.00 19.00
gran., bgs., 20-ton lots 100 lbs 9.50 —
bgs. smaller lots 100 lbs. 11.00 12.00
powd., bgs., 20-ton lots 100 lbs. 10.50 —
bgs. smaller lots 100 lbs. 12.00 -13.00
Potassium oxalate, neutral, tech., fine gran., powd., 300-lb. dm. f.o.b works E lb. .32 - —
Potassium pentaborate, gran., dms., c.l., works ton. 219.50 - —
dms., ton lots, ex whse ton. 311.00 - —
dms., smaller lots, ex whse ton. 316.00 - —
Powdered potassium pentaborate $10 per ton higher.
Potassium perchlorate, dms., c.l., works lb. .18½ —
dms., l.c.l., works lb. .19 .20
Potassium permanganate, comi., kgs. works lb. .25 .33
USP, dms., works lb. .29 .35
Potassium persulfate, dms., c.l., works lb. .17½ —
dms. l.c.l., works lb. .18 .21
Potassium pyrophosphate, tetrabasic, dms., works lb. .1475- .1575
Potassium prussiate red (see Potassium ferrocyanide)
Potassium prussiate yellow (see Potassium ferro-cyanide).
Potassium silicate, electrical grade, 30° Be. 1:2.0, dms., c.l., works 100 lbs 6.50 —
dms., l.c.l., 5 dm. lots or more, works 100 lbs 7.25 7.85
tanks, works 100 lbs. 6.15 —
Potassium silicate electrical grade, 40.5° Be. 1:2.1, dms., c.l., works 100 lbs 5.95 —
dms. l.c.l., 5 dm. lots or more, works 100 lbs 6.70 - —
tanks, works 100 lbs 5.60 —

Potassium Silicate—Sodium Orthosilicate

Potassium silicate, glass grade, bgs., c.l., works 100 lbs. 17.30 -18.00
bgs. l.c.l. works 100 lbs. 17.80 —
Soln., 29° Be 1:2.5, dms., c.l., works 100 lbs. 4.95 —
dms. l.c.l., 5-dm lots or more, works 100 lbs 5.70 - —
tanks, works 100 lbs 4.60 —

Potassium silicofluoride, bgs. works lb .09½ .10

Potassium silicofluoride in drums, 0.4c per lb higher

Potassium stannate dms. frt alld. E lb. .780 - .853

Potassium sulfate, min 50% K_2O, agricultural, bulk, c.l., works unit-ton .70½- .72½

Inside price applies to tonnage contracted for prior to July 1, 1960.

Outside price applies to tonnage contracted for after that date but also for delivery during the current month.

Potassium sulfate NF VII, cryst., dms. lb .31 .33
NF VII, gran., 400-lb. dm ... lb. .18 - —
NF VII, powd., 400-lb. dm ... lb. .17 - —

Potassium sulfocyanate, NF, cryst., (see Potassium thiocyanate)

Potassium thiocyanate, NF, cryst., dms., works lb. .96 .98
Tech. dms. works lb. 77 79

Potassium titanate ctns. c.l., works lb .16¼ —
ctns. 5-ton lots, works lb. .16½ —
ctns. 1-ton lots or less, works lb. .16¾ —

Potassium-magnesium sulfate, basis 40% K_2SO_4 and 18% MgO, bulk works, base price. ton 13.45 - —
bulk, works, July forward ton 14.00 - —

Potassium-sodium tartrate, NF gran. or powd., 250-lb. dms., c.l., works E lb. 42½- —
250-lb dms. 5,000-lb lots, same basis lb. 43 —
250-lb. dms., same basis lb. 43½- —

Potassium-titanium fluoride, fib. dms., works lb. .39 40

Potassium-zirconium flouride, fib. dms. c.l., works lb. .50 —
fib. dms., l.c.l., works lb. .52½ .55

Pregnenolone, bots. gram No prices.

Pregnenolone acetate, bots. gram. No prices.

Procaine hydrochloride USP antibiotic grade dms., 2,000-lb lots, frt alld lb 2.25 —
USP, ampule grade, dms., 1,000-lb. lots, frt. alld lb 2.40 —
dms. 500 lbs lb 2.45 —
dms., 100 lbs lb 2.50 —

Progesterone, USP, bots ... gram No prices.

Pregnenolone acetate, bots gram. No prices.

Propenyl guaethol, dms. lb. 24.30 -27.00

b-Propriolactone, tech., dms., c.l., f.o.b. works lb. .47½ —
dms., l.c.l., t.t.l., same basis lb. .48½- —
tanks, same basis lb. .45 —

Propionic acid syn. pure, dms., c.l., dlvd lb. .23¼- —
dms., l.c.l., dlvd. lb. .24¾- —
tanks, dlvd. lb. .20¾- —

n-Propyl acetate, dms., c.l., dlvd lb. .14¾- —
dms., l.c.l., dlvd lb. .16¼- —
tanks, dlvd lb. .12¼- —

n-Propyl alcohol, dms., c.l., dlvd lb. .14 .15
dms., l.c.l., dlvd lb. .15½ .16½
tanks, dlvd lb. .11½ 12½

n-Propyl gallate, dms., 100 to 2,000-lb lots, works lb 3.90 4.40

n-Propyl-p-hydroxbenzoate USP, dms lb. 2.30 2.40

Propyl thiouracil bots., 50 kilo lots or more kilo. 55.00 —
bots., smaller lots kilo. 55.10 -55.30

n-Propylamine dms., c.l., dlvd lb 1.24 —
dms. l.c.l. same basis lb. 1.255 —

n-Propylene dichloride consumers', dms. c.l. dlvd E lb. .0845- —
dms., l.c.l. same basis lb .0995- —
tanks same basis lb .07 —

Propylene dichloride prices in West 1c. higher same basis

Propylene glycol, indust., dms., c.l., dlvd E lb. .15 —
dms., l.c.l., same basis lb. .16¾- —
tanks, same basis lb. .12½- —
USP dms., c.l., dlvd E lb. .17 —
dms. l.c.l. same basis lb. .18¾- —

Propylene glycol methyl ether, dms., c.l., dlvd lb. .20 —
dms., l.c.l., same basis lb. .21 —
tanks, same basis lb. .18½- —

Propylene oxide dms., c.l., dlvd E. lb. .17 —
dms., l.c.l., dlvd E lb. .18½- —
tanks, dlvd E lb. 14½ —

Psyllium seed, black, bgs .... lb. .30 .35
Blonde bgs lb. 18 20
Husks, bgs lb. 42 45

Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03¾ .04¼
bgs., smaller lots lb. .03¾- —

Imp., Italian silk-screen, coarse, bgs. ton lots lb. .06½- —
fine, bgs. ton lots lb .04 —
sun dried, coarse, bgs ton 60.00 —
fine, bgs. ton 60.00 70.00

Pumpkin seed, bgs lb. .25 .26

Pyrethrins, syn. (see Allethrin).

Pyrethrum flowers, fine grd. 0.9% pyrethrins, bgs., ton, works lb. .50 —

Powd., 1.3% pyrethrins, bgs., ton works lb. .71 - —

Pyrethrum liquid, 20:1 basis (2 grams pyrethrins per 100cc odorless base) dms., works, gal 9.60 9.80

Pyrethrum liquid, 100:1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal. 45.90 46.90

Pyrethrum oleoresin, dewaxed, 20%, dms., works lb. 11.00 11.35
purif., 20%, dms. works lb 11.00 11.35

Pyridine, denat., dms. c.l. works and frt. equald gal. 2.77 - —
dms., l.c.l., same basis gal. 2.80 - —

Refd., 2°, non-ret dms., c.l., same basis lb. .75½- —
dms., l.c.l., same basis lb. .76 - .76½
tanks, same basis lb. .71 - —

Pyridoxine hydrochloride, USP 500-gram bots. dms., f.o.b. works kilo 95.00 -100.00

Pyrites, Canadian, 48-50% S, mines, long-ton. 4.50 - 5.00

Pyrocatechol (see Catechol)

Pyrogallic acid, NF (see Pyrogallol).

Pyrogallic acid, tech., bbls., 100-lbs., f.o.b. works lb 3.50 —

Pyrogallol, NF, 100-lb dms lb 3.50 —

Pyroxylin, USP bots lb 9.50 —

Q

Quassia, chips lb. .10 - —

Quicksilver (see Mercury, metal)

Quince seed, bgs lb. 1.75 - —

Quinidine sulfate, USP, 1,000-oz. dm oz. 74½ —

Quinine, NF, 1,000-oz. dm. ..... oz. .3750- —

Quinine bisulfate, USP, 1,000-oz. dm. oz. .28 - —

Quinine hydrochloride, 1,000-oz. dm. oz. .3650- —

Quinine sulfate, USP, 1,000-oz. dm. oz. .3150- —

Quinoline, dms., c.l., frt. equald lb. .50¾ —
dms., l.c.l., same basis lb. .51¼- —
tanks, same basis lb. .50 - —

R

R salt paste, dms., frt alld., 100% basis lb .98 - —
Powd., frt. alld, 100% basis lb. 1.08 - —

Rapeseed oil, dms lb. .15¼- .15½
tanks lb. .13¼- —

Rare earth oxalate, NF, 45-50%, bgs, works lb. 1.15 - —

Rauwolfia serpentina root, powd., bbls. dms lb. 1.00 1.20

Red carmine, No. 40 (see Carmine).

Red oil (see Oleic acid).

RED PIGMENTS

Red pigment quotations are listed individually. For example, prices on Red, lithol toner, may be found in the L's under Lithol red toner.

Red precipitate (see Mercuric oxide, red).

Red toner, Lake C, alizarine, bbls., works lb. 1.30 - —

Reserpine, cryst. bots gram 1.25 - —

Resorcinol, tech. grade, bgs., c.l., works, frt. equald lb. 77½- —
bgs., l.c.l., same basis lb. 78½- —

Resorcinol in dms., 1c. per lb. more.

USP, powd., dms., works lb 2.95 —

Resorcinol monoacetate, NF, dms. lb 2.50 —

Rhatany root, bgs lb .14 .16

Rhodamine red toner, molybdated, PMA, kgs. works lb 6.00 —
Tungstated, PTMA works, kgs lb 6.60 —

Rhodinol, 5-lb cans lb. 42.00 -51.00
Synthetic lb. 14.00 16.00

Rhubarb root, India, whole, bgs lb .25 —
powd., bgs lb .35 —
tanks, same basis lb. 14½- —

Riboflavin, USP, fib dms., kilo or more, dlvd kilo. 36.00 - —

Riboflavin, 5-phosphate-sodium, fib dms. kilo or more, dlvd kilo. 104.50 - —

Rice bran oil, clarified, dms., c.l., tanks, dlvd E lb. .14 .14½ lb. .12 Nom.

Ricinoleic acid (see Castor oil acids, split).

Rochelle salt (see Potassium sodium tartrate).

Roofing pitch (see Coaltar pitch, roofing).

Rose oil, nat., Bulgarian, bots lb. 1,152.00 —
Turkish, bots lb. 560.00 750.00

Rosemary oil, Spanish, NF, ens., dms lb .97 1.40

Spanish, tech. ens., dms lb 50 1.20

Rosin gum and wood (see Naval Stores in Protective Coatings market)

Rotenone, fib. dms., works unit-lb. .10½- —

Resin, 25-45% fib dms. works, unit-lb. .10½- —

Rottenstone, bgs. 5-ton lots, ex-whse lb. .03¾ —
bgs., ton lots, same basis lb. .04¼- —

Rubber solvent petroleum, 115°F-245°F b.r., tankcars, New Jersey and New York gal. .19 —
Group 3 gal. .13875- —
Houston, Texas gal 155 —

Rue oil, bots lb 2.75 3.00

Rutin, NF fib dms. 10 kilo lots kilo. 13.00 —
fib dms., 5 kilo lots kilo. 13.50 - —
fib dms., 1 kilo kilo. 14.00 - —

Ryania, 100% powd. bgs., c.l. works lb .22 - —
bgs., l.c.l., same basis lb .24 - —

S

S acid, bbls., works lb. 3.25 - —

Sabadilla seed, activated, ground with lime, bbls lb .42 .44

Saccharin, calcium, fib dms. 1,000-lb lots, works lb 2.50 —

USP, gran., soluble, dms., 1,000-lb lots lb 1.40 - —
dms., smaller lots lb. 1.50 - —

USP, powd., soluble, insoluble, dms., 1,000-lb lots lb 1.45 - —
dms., smaller lots lb. 1.55 - —

Saccharin, USP, powd., insoluble, dms., 1,000-lb lots lb 1.43 - —
dms., smaller lots lb 1.53 - —

Safflower oil, dms., New York lb. .1725- .1750
Tanks, A.I.C. ¼- 15½

Saffron, Mancha Superior, tins lb. 19.50 - —

Safrol, dms lb .65 - —

Sage, Dalmatian, bgs lb 40 —
Greek, ens. lb 15 —
Italian, ens. lb 18 —

Sage oil, clary, bots lb. 12.00 -15.00
Dalmatian, ens lb 2.85 3.25
Spanish, ens lb 1.25 1.75

Sal soda (see Soda, sal).

Salicylaldehyde, dms., c.l., t.l., f.o.b., plant, frt. equald lb 1.23 - —
dms., l.c.l., same basis lb 1.25 - —

Salicylamide, 100-lb dms lb 1.05 - —

Salicylic acid, tech., fib dms., c.l., t.l., dlvd lb. .40½- —
fib dms., l.c.l., dlvd lb. .44¾- —

Salicylic acid, USP, cryst., 200-lb. fib. dms., 1,000 lbs. or more lb. .51¾- —
200-lb. fib dms., less than 1,000 lbs lb. .54¾ —
100-lb fib dms., 1,000 lbs or more lb. .53¾- —
100-lb. fib dms., less than 1,000 lbs lb. .56¾- —

USP, powd., 100-lb fib dms., 1,000 lbs. or more lb. .58¾- —
100-lb fib dms., less than 1,000 lbs lb. .61¾- —

Salol, NF, gran., bbls., kgs lb 1.20 —
Powdered salol 25c per lb higher.

Salt, rock, paper bgs., c.l. 100 lbs 1.09 - —

Salt, table vacuum common, fine, paper bgs., c.l. 100 lbs 1.34 - —

Saltcake, dom. bulk, works, 100% Na_2SO_4 basis ton 28.00 - —

Saltpeter (see Potassium nitrate).

Sandalwood, E. Indian, chips, bgs., lb .55 .66
powd. fib dms lb 75 76

Sandalwood oil, ens lb. 21.00 - —

Sarcosine, tech., tanks, f.o.b. works, frt equald lb 1.03 —
lb No stocks.

Sassafras oil, artif., dms lb. .45 —
Nat., dom., dms lb 1.40 - —

Savory oil, ens lb 4.75 - —

Schaeffer's salt, paste, dms., frt alld 100% basis lb. .85 - —

Powd. bgs. frt alld. 100% basis. lb. .95 - —

Scopolamine hydrobromide, USP, bots oz. 13.00 - —

Sebacic acid, CP, bgs., c.l., works lb. .69½- —
bgs., l.c.l., works lb. 71½- —
Purified, bgs. c.l., works lb. .65½- —
bgs., l.c.l., works lb. .67½- —

Seidlitz mixture, fib dms. 5,000-lb. lots lb .30½- —
fib dms., smaller lots lb. .31 .32

Selenium, powd., 99½%, dms., dlvd. lb. 7.00 - —

Senega root, bls lb. 3.00 - —

Senna leaves, Alexandria, whole and half, bls lb. .20 - .22
siftings lb. .16 - —
Tinnevelly, No. 1, bls lb. .22 - —
No. 2, bls lb. .18 - —
No. 3, bls lb. .14 - —
pods, bls lb. .28 - —
powd., bbls., bxs lb. .17 - —

Serpentaria root, bls lb. 6.50 - —

Sesame oil, USP, dms., l.c.l lb. .37 - .38

Sesame seed, Colombian, bgs lb. 15½- —
Lebanese, hulled, bgs lb. 19 —
Nicaraguan, hulled, bgs lb. .25 - —
nat., bgs lb. 14 - —
Salvadorian, Nat. bgs lb. 16 - —

Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .47 - —
dms., l.c.l., works lb 22 .30½
bbls., 1,500-lb. lots lb. .46 - —
kgs., 1,500-lb. lots lb. .47 - —

Bonedry shellacs prices for less than 1,500-lb lots 1c. per lb higher for all packages.

Shellac, bleached, refd. bgs., 1,500-lb lots lb. .56 - —
bbls., 1,500-lb lots lb. .57 - —
kgs., 1,500-lb. lots lb. .58 - —

Shellac, orange, lemon No. 1, bgs., 10-bg. lots lb. .37 .39
lemon No. 2, bgs., 10-bg. lots lb. .34 .37
superfine, bgs. 10-bg. lots lb .32 .34

Shellac in 1 to 10-bg lots 1c. per lb more.

Shingle stain oil, tar distillate, dms., c.l., works gal. .37 - —
dms., l.c.l., works gal. .48 - —
tanks, works gal. .25 - —

Sienna, pigment, burnt, paper bgs., c.l., works lb. .06½- .18½
paper bgs., l.c.l., works lb. .06¾ .17¾
Raw, paper bgs., c.l., works lb. .06¾ .16¾
paper bgs., l.c.l., works lb. .07 .17

Silica, amorph., dry-grd. 325 mesh, bgs., c.l., works ton 25.00 —
bgs. l.c.l. works, ex whse ton 45.00 -55.00

Silica, hard-quartz, 99½%, 325 mesh, bgs., c.l. works ton 20.00 - —
bgs., l.c.l., works ton 25.00 - —
99½% 140 mesh bgs., c.l. works ton 15.00 - —
bgs., l.c.l., works ton 20.00 - —

Silicon tetrachloride, tech., dms., c.l., works lb. .20 - —
tanks, works lb. .15 - —

Silver bullion, ingots, cs. Troy oz. .91⅜- —

Silver cyanide, bots. 1,000-oz. lots, oz. .94¾- —
bots. 500-oz. lots oz. .95¼- —
bots. 100-oz. lots oz. .96¼- —

Silver nitrate, CP, cryst., bots., 1,000 to 4,000 oz., f.o.b. works oz. .67¼- —
bots. 250-500 oz., same basis, oz. 67¾- —

USP granular silver nitrate 4c. per oz. higher.

Silver proteinate, mild, USP, 16-oz. bots oz. 1.46 - —

Snakeroot oil, Canada, ens lb. 40.00 -43.00

Soapbark, crushed, bls lb. .30 .35
Powd., bls lb. .35 .40
Whole, bls lb. .20 .25

Soda ash, dense, 58%, paper bgs., c.l., works 100 lbs. 1.90 —
paper bgs., l.c.l., stock pts., 100 lbs. 3.00 4.77
bulk, c.l., works 100 lbs. 1.60 —
Light, 58%, paper bgs., c.l., works 100 lbs. 1.85 —
paper bgs., l.c.l., stock pts., 100 lbs. 3.95 4.72
bulk, c.l., works 100 lbs. 1.55 —

Soda caustic, flake 76%, dms. c.l., works, frt equald 100 lbs. 5.20 - —
liq. 50% sellers tanks works, dry basis 100 lbs. 2.90 - —
50%, rayon type, sellers tanks, works, dry basis 100 lbs. 2.90 3.00

Soda, caustic, liq, 73%, sellers' tanks works, dry basis, 100 lbs. 3.00 —
liq., 73% rayon type, sellers' tanks, works, dry basis lb. 3.00 3.10
solid, 76% dms. c.l., works, 100 lbs. 4.80 - —

Soda, sal, conc., bgs. c.l., works, 100 lbs. 2.50 - —
bgs., smaller lots, works 100 lbs. 2.80 - —

Sodium acetate, anhyd., bgs., c.l., dlvd. E lb. .14½- —

NF, 60%, gran., dms. c.l., works, dms., c.l., works lb. .15½- —
dms., l.c.l., works lb. .17½- —

Sodium alginate, NF, white powd., dom. 300 lbs or more lb. 1.02 - —

Sodium p-aminosalicylate, dms., 100-lb. lots or more, frt. adjusted lb. 1.90 - —

Sodium antimoniate, bgs. c.l., dlvd. E lb. .27½- —
bgs. l.c.l., dlvd E lb. .29 - —

Sodium arsenate, 60% arsenic pentoxide, 200 lb. dm., less than ton lots, f.o.b. works lb. .24 - —
ton lots or more, same basis, lb. .23½- —

Sodium arsenite, 94% soluble pink powder, 75% arsenious oxide, dealers, 100-lb. dms., ton lots or more, f.o.b., works lb. .18½- —
1,600-1,900 dms., same basis lb. .19 - —
100-500 dms., same basis lb. .20 - —

Sodium ascorbate, dms., 100-kilos., dms., f.o.b. works kilo. 6.80 - —
less than 100-kilos kilo. 7.05 - —

Sodium benzoate, tech., dms., c.l., t.l., frt. alld lb. .35 - —
dms., l.c.l., same basis lb. .39 - —
USP dms., c.l., t.l., frt. alld lb. .38 - —
dms., ton lots, same basis lb. .43 - —
dms., 1,000-lb. lots, same basis, lb. .45 - —

Sodium bicarbonate, USP, gran., bgs., c.l. works 100 lbs. 2.93 - —
bgs., l.c.l., works 100 lbs 3.85 - —
USP powd., bgs., c.l., works, 100 lbs. 2.55 - —
bgs., l.c.l. works 100 lbs. 3.45 - —

Sodium bichromate, gran., ngs., c.l., t.l., works lb. .13 —
bgs., l.c.l., works lb. .13½- .14¾
Sodium bichromate in dms. ¾c. per lb higher

Sodium bifluoride, bbls., c.l., works, frt. equald lb. .19½- —
bbls., l.c.l., same basis lb. .2025- —

Sodium bisulfate, bulk, c.l., works, 100 lbs. 2.00 —
dms. c.l., frt. equald 100 lbs. 3.00 3.60
dms. l.c.l., frt equald 100 lbs. 3.50 4.10

Sodium bisulfite, anhyd., bgs., c.l., works 100 lbs 5.00 - —
bgs., l.c.l., works 100 lbs 5.45 - —
Soln., 35° bbls. c.l., works 100 lbs 1.70 - —
bbls., l.c.l., works 100 lbs. 2.20 - —

Sodium borate (see Borax).

Sodium borohydride, powd., dms., c.l., works lb. 19.90 - —
dms., l.c.l., works lb. 33.00 -40.00

Sodium borohydride, stabilized water soln., 12% NaBH, 100% basis, dms. works lb. 15.00 - —
Pelletized sodium borohydride $1 per lb. higher in 1,000-lb lots.

Sodium bromide, USP, gran., dms., works lb. .40 - —

Sodium carbonate, cryst., monohydrated (see Soda, sal).

Sodium carbonate, monohydrated, bgs., c.l., works 100 lbs 3.10 - —
bgs., l.c.l., works 100 lbs. 3.50 - —

Sodium carboxymethyl cellulose (see CMC).

Sodium chlorate, cryst., 350-lb. dms., c.l., works lb. .09 - —
dms. l.c.l. works lb. .09½- .10½

Sodium chlorate in 100-lb. dms., only, ¼c per lb. higher.

Sodium chloride, tech. (see Salt).

Sodium chloride, USP, gran., bgs. lb. .05 - —

Sodium chlorite, tech., dms., c.l., works lb. .58 - —
dms. 20-dm lots or more, works. lb. .66 - —
dms., smaller lots, works lb. .70 - .73

Sodium chloroacetate, tech., dms., c.l., works lb. .27 - —
dms. l.c.l., works lb. .28 - —

Sodium chromate, anhyd., fib. dms., c.l., t.l., works lb. .14¾- —
fib. dms., l.c.l., works lb. .15¼- .16½

Sodium chromate tetrahydrate, bgs. c.l., t.l., works lb. .1015- —
bgs., l.c.l. lb. .1065- .1190

Sodium citrate, anhyd., 200-lb. dm., f.o.b. works E lb. .62 - —
NF VIII, gran. bgs., c.l., same basis lb. .26 - —
USP XIV, gran., bgs., c.l., same basis lb. .29 —

Sodium citrate, USP, powd. prices ½c higher.

Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 —
dms., smaller lots, works lb. .90 1.10

Sodium cyanide, briquettes or gran., 97 percent min., dms., works, 20,000-lb lots lb. .176 - —
dms., same basis, 5,000 to 19,999-lb lots lb. .188 - —
dms., same basis, 1,000 to 4,900-lb. lots lb. .198 - —

Sodium cyclamate, 100-lb dm., f.o.b. works lb. 1.95 - —

Sodium diacetate, anhyd., 39-41% acetic acid, dms., c.l., works lb. .18 —
250-lb dms., c.l., works lb. 18¾- —
Tech., 33-35% acetic acid, dms., t.c.l., works lb. .15 —
250-lb dms. t.c.l., works lb. .15¾- —

Sodium dimethyl dithiocarbamate, 40% soln. dms. c.l., t.l., frt. alld., 100% basis lb. .42 —
dms., l.c.l., t.t.l., same basis lb. .47 .53
tanks, same basis lb .38 —

Sodium ferrocyanide, bgs., 10-ton lots lb. .13½- —
bgs. smaller lots lb. .14¾- —

Sodium fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390- —
fib. dms., l.c.l., works, frt. equald lb. .1465- —

Sodium formate, bgs., c.l., works, 100 lbs. 7.05 - —
bgs. l.c.l., ex whse 100 lbs. 8.65 - —

Sodium gentisate, 100-lb. fib. dms. lb. 5.50 - —

Sodium gluconate, refd., 250-lb. dm., f.o.b. works E lb. .64 - —
Tech. bgs. c.l. t.l., same basis lb. .34 - —

Sodium hydride, 50% soln. in oil, dms., works lb. 1.25 2.50
25% soln. in oil, dms., 50 lbs. or less, f.o.b. shipping point. lb. 2.20 - —
dms., 50-99 lbs. same basis lb. 1.77 - —
dms., 100-999 lbs., same basis lb 1.20 —
dms. 1,000 lbs or more, same basis lb .95 —

Sodium hydrosulfide (see Sodium sulfhydrate).

Sodium hydrosulfite, dms. c.l., frt alld lb. .23½ —
dms. l.c.l. frt alld. lb. .25¾- —

Sodium hydroxide, NF, pellets, 100-lb dms., 1 to 100-dm. lots, lb. .23½- .26

Sodium hydroxide, tech (see Soda, caustic).

Sodium hypophosphite, NF, dms. 1,000-lb. lots lb. .99 - —

Sodium hyposulfite (see Sodium thiosulfate).

Sodium iodide, USP, 300-lb. dms., f.o.b. works lb. 2.13 - —

Sodium lauryl sulfate, dms., c.l., dlvd lb. .20½- —
dms., t.t.l., dlvd. lb. .21½- —
tanks, dlvd. lb. .19½- —

Sodium lignin sulfonate, bgs., c.l., works 100 lbs. 4.25 6.50
c.l., bgs., works 100 lbs. 4.40 7.00

Sodium metabisulfite (see Sodium bisulfite).

Sodium metaborate octahydrate, gran., bgs., c.l., works ton 210.00 - —
bgs., ton lots, ex whse 100 lbs. 8.00 - —
bgs., smaller lots, ex whse. 100 lbs. 9.25 -11.25

Tetrahydrate, bgs., c.l., works, ton 210.00 - —
bgs., ton lots, ex whse 100 lbs. 13.93 - —
bgs., smaller lots, ex whse 100 lbs. 15.18 -17.18

Sodium, metallic, bricks, c.l., works, lb. .21 - —
Fused, 18,000-lb. lots or more, works lb. .19½- —
tanks, works lb. .17 - —

Sodium metalinate, bbls., frt. alld. lb. .62 - —

Sodium metaphosphate, bgs., c.l., f.o.b. shipping pt 100 lbs. 11.10 - —
bgs., l.c.l., same basis 100 lbs. 11.85 - —
dms., c.l., same basis 100 lbs. 11.70 - —
dms., l.c.l. same basis 100 lbs. 12.45 - —

Sodium metasilicate, anhyd., bgs., c.l., works 100 lbs 5.70 - —
bgs., 6,000-19,900 lb. lots, works, 100 lbs. 6.05 - —
dms., c.l., works 100 lbs. 6.20 - —
dms., l.c.l., works 100 lbs. 6.55 - —

Sodium metasilicate pentahydrate, bgs., c.l., works 100 lbs. 4.45 - —
bgs., l.c.l., works 100 lbs. 4.80 - 6.75
dms., l.c.l., works 100 lbs. 4.95 - —
dms., l.c.l., works 100 lbs. 5.30 - 7.25

Sodium molybdate, anhyd., dms., works, frt. equald lb. .92 .99
Cryst., dms. works frt alld lb .74 .76

Sodium monoglutamate (see Monosodium glutamate)

Sodium monohydrate (see Sodium carbonate, monohydrated)

Sodium naphthionate, bbls. lb. .72 - —

Sodium nitrate, dom., crude, bgs., c.l. works ton 48.00 - —
bulk, c.l., works ton 44.00 - —
Imp., crude, 100-lb. bgs., c.l., Atl., Gulf, Pac., whse ton 48.00 - —
bulk, c.l., same basis ton 44.00 - —

Sodium nitrite, USP, bbls., c.l., works, frt equald 100 lbs 9.00 - —
bbls., l.c.l., same basis 100 lbs. 11.00 - —

Sodium orthosilicate, conc., dms., c.l., works 100 lbs 6.70 —
dms., l.c.l., works 100 lbs 7.05 7.65

Hydrated, flake, bbls., c.l., works 100 lbs 5.65 —
bbls., l.c.l., works 100 lbs. 7.60 7.90

Sodium oxalate, 98%, bgs., works, 100 lbs. 12.35 - —
99%, bgs., works 100 lbs. 15.40 - —

Sodium para-aminobenzoate (see Sodium p-aminobenzoate).

Sodium para-aminosalicylate (see Sodium p-aminosalicylate).

Sodium pentachlorophenate, briquets, dms., c.l., works, frt. equald lb. .26 - —
dms., l.c.l., same basis lb. .27½ - .34
Pellets, dms., c.l., same basis lb. .26 - —
dms., c.l., same basis lb. .27½ - .34
Powd., dms., c.l., same basis lb. .25 - —
dms., l.c.l., same basis lb. .26½ - .33

Sodium pentabarbital, USP, dms., 100 lbs. or more lb. 6.00 - —

Sodium perborate, NF, tech., bgs., c.l., works lb. .18½ - —
bgs., l.c.l., works lb. .19 - .21

Sodium peroxide, dms., c.l., t.l., dlvd E. of Miss lb. .21½ - —
dms., l.c.l., same basis lb. .22 - .22½

Sodium phenobarbital, USP, 100-lb. dms lb. 3.75 - —

Sodium phenosulfonate, USP, IX, gran., dms lb. .52 - .53
NF, powd., dms. lb. .55 - .56

Sodium phosphate, dibasic, anhyd., bgs., c.l., frt equald 100 lbs. 7.95 - —
bgs., l.c.l., same basis 100 lbs. 8.35 - 9.40

Sodium phosphate, dibasic, cryst., bgs., c.l., t.l., frt. equald. 100 lbs. 4.60 - —
bgs., l.c.l., frt. equald 100 lbs. 5.00 - 5.75

Dibasic, duohydrate, bgs., c.l., frt. equald 100 lbs. 7.60 - —
bgs., l.c.l., same basis 100 lbs. 8.10 - —

Monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.00 - —
bgs., l.c.l., same basis 100 lbs. 9.40 - 10.00

Tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 9.00 - —
bgs., l.c.l., frt. equald 100 lbs. 9.45 - 10.05

Sodium phosphate in dms. 60c. to 80c. higher than bgs

Sodium phosphate, USP, dried, powd., bgs., dms., works lb. .19 - .20½

Sodium picramate, tech., paste, dms., f.o.b. works, frt. equald lb. .90 - —

Sodium propionate, any quantity, dms. dlvd E of Rockies, lb. .34½ - —

Prices W of Rockies 3c. per lb. more.

Sodium prussiate, yellow (see Sodium ferrocyanide)

Sodium pyrophosphate acid, bgs., c.l., works, frt. equald. 100 lbs. 11.10 - —
bgs., l.c.l., same basis 100 lbs. 11.85 - 12.35

Sodium pyrophosphate, ferric, dms., c.l., t.l., works lb. .36 - —
dms., l.c.l. works lb. .37 - .39

Tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.55 - —
bgs., l.c.l., same basis 100 lbs. 8.30 - —

Sodium salicylate USP, dms., 1,000-lbs or more lb. .78½ - —
dms., less than 1,000 lbs. dms. lb. .81½ - —

Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.35 - —

Sodium sesquicarbonate, bgs., l.c.l., dlvd. zone 1 100 lbs. 4.10 - 4.35
dlvd. zone 2 100 lbs. 4.35 - 4.60
dlvd. zone 3 100 lbs. 4.75 - 4.90
dlvd zone 4 100 lbs. 5.35 - 5.60

Sales zones are (1) Atl. states E. of Miss., R and N of south bound of Ky. and Va., Ala., La. and Miss. south of 31°; Tex E. of 100°; S of 31° Fla.; also Me., N. H. and Vt. in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga., Iowa (except Davenport) Minn., Mo. (except St. Louis) Neb. E. of 98° N. C., S. C., Tenn and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No of 31°; (3) Ark. W of 96°, Kan., Neb. W. of 98° N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.

Sodium sesquisilicate, anhyd., bgs., c.l., t.l. works 100 lbs. 5.70 - —
dms., c.l., t.l., works 100 lbs. 6.20 - —

Sodium sesquisilicate hydrated, bgs., c.l. works 100 lbs. 5.00 - —
bgs., 6,000-19,900 lb. lots, works 100 lbs. 5.35 - —
dms., c.l., works 100 lbs. 5.50 - —
dms. 6,000-19,900 lb lots, works, 100 lbs. 5.85 - —

Sodium silicate, liq., 40° Be., 1:3.2, turbid, dms., c.l., works, 100 lbs. 1.65 - —
dms., l.c.l., works 100 lbs. 1.90 - 2.40
tanks, works 100 lbs. 1.20 - —
47° Be. 1:29.9, turbid, dms., c.l., works 100 lbs. 2.25 - —
dms., l.c.l., works 100 lbs. 2.60 - 3.45
tanks, works 100 lbs. 1.90 - —
52° Be. 1:2.4, turbid, dms., c.l., works 100 lbs. 2.65 - —
dms., l.c.l., works 100 lbs. 3.00 - 3.50
tanks, works 100 lbs. 2.30 - —
Solid, 1.3.2, bgs., works ton. 67.50 - —

Sodium silicofluoride, bgs., c.l., works lb. .065 - —
bgs., l.c.l., works lb. .725 - —

Sodium silicofluoride in dms., 0.4c. per lb. higher

Sodium stannate, dms., works, frt. alld., E lb. .638 - .697

Sodium sulfa drugs (see Sulfa name).

Sodium sulfanilate, bbls., works lb. .22 - —

Sodium sulfate, NF VII, dried, powd., dms lb. .22½ - —
Tech., anhyd. bgs., c.l. dlvd E. ton. 56.00 - —
Tech., detergent, rayon grade, bgs., c.l., works ton. 38.00 - —
bulk, c.l., works ton. 34.00 - —
USP, cryst., fib dms lb. .17½ - .18

Sodium sulfhydrate, flake, 70-72%, dms., c.l. works, frt. equald lb. .07¼ - —
dms., l.c.l., same basis lb. .08¼ - —
Liq. 40-44% tanks, works, 100% basis ton. 130.00 - —

Sodium sulfide, flake, dms., c.l., works, E., frt. equald lb. .06 - —
dms., l.c.l., same basis lb. .07 - —
Fused, bbls., c.l., works, E., frt. equald lb. .05½ - —
bbls., l.c.l., same basis lb. .06½ - —

Sodium sulfite anhyd., powd., bgs., c.l., works 100 lbs. 7.55 - —
bgs., l.c.l. same basis 100 lbs. 7.95 - —
Anhyd., tech., bgs., c.l., works, 100 lbs. 3.50 - —
bgs., t.l., same basis 100 lbs. 4.00 - —

Sodium sulfocyanide, CP (see Sodium thiocyanate).

Sodium tetraborate (see Borax).

Sodium tetrasulfide, liq., 40%, dms., c.l., works frt. equald lb. .04¼ - —
dms., l.c.l. same basis lb. .05½ - —

Sodium thiocyanate, CP, dms lb. .55 .65
Tech. anhyd., dms., 1 ton lots or more, works lb. .367 - —
dms., less than ton lots, works lb. .387 - —

Sodium thiosulfate, NF, cryst., bbls. lb. .13¼ - —
Tech., anhyd. 100-lb. bgs., c.l., t.l., frt. equald 100 lbs. 7.75 - —
100-lb. bgs., l.c.l., t.l., frt. equald 100 lbs. 8.15 - —

Sodium thiosulfate, tech., anhyd., photo grade, 64-lb. bgs., c.l., t.l., frt. equald lb. .0775 - —
64-lb. bgs., l.c.l., t.l., frt. equald lb. .0815 - —
Tech., pentahydrate, photo grade, 100-lb bgs., c.l., t.l., frt. equald 100 lbs. 4.95 - —

Sodium thiosulfate tech., pentahydrate, photo grade, 100-lb. bgs., l.c.l., t.l., frt. equald 100 lbs. 5.20 - —

Sodium titanate, ctns., c.l., works, lb. .14¼ - —
ctns., 5-ton lots, works lb. .14½ - —
ctns., 1-ton lots or less, works lb. .14¾ - —

Sodium trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E. lb. .35 - —
50-lb. dms., c.l., frt. alld. E lb. .35½ - —
10-lb cns., c.l., frt. alld. E lb. .42 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Sodium tripolyphosphate, bgs., c.l., works, frt. equald. 100 lbs. 7.90 - —
bgs., l.c.l., same basis 100 lbs. 8.65 - —

Sodium trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.95 - —
bgs., l.c.l., works 100 lbs. 9.70 -13.13
dms., c.l., works 100 lbs. 9.45 —
dms., l.c.l., works 100 lbs. 10.20 -10.60

Sodium tungstate, tech., kgs., dlvd. E lb. 1.32 - —

Sodium-ammonium phosphate, purif., cryst., dms., works lb. .52 - —

Sodium-carboxymethyl cellulose (see CMC).

Sodium-cinchophen (see Cinchophen-sodium).

Sodium - formaldehyde sulfoxylate, dms., t.l., dlvd. lb. .22¼ - —
dms., l.t.l., same basis lb. .23 - —

Sodium-zirconyl sulfate, fib. dms., 1,000-lb. lots or more works lb. .28 - —
fib. dms., smaller lots, same basis lb. .30 - —

Solvent naphtha, coaltar, high-flash, tanks, frt. equald gal. .30 - .35½

Solvent naphtha, petroleum, straight aromatic, 310°-360° F. b.r., 14°-16° C. m.a.p., tankcars, New Jersey and New York gal. .29 - —
Houston, Texas gal. .29 - —
355°-420° F. b.r., 17°-18° C. m.a.p., tankcars, New Jersey and New York gal. .30 - —
Houston, Texas gal. .30 - —

Solvent naphtha, petroleum, partial aromatic, 211°-265° F. b.r., 31° C. m.a.p., tankcars, New Jersey and New York gal. .233 - —
286°-340° F. b.r., 22° C. m.a.p., tankcars, New Jersey and New York gal. .275 - —

Solvent naphtha, 319°-380° F. b.r., 27° C. m.a.p., tankcars, New Jersey and New York gal. .27 - —
322°-395° F. b.r., 28° C. m.a.p., tankcars, New Jersey and New York gal. .28 - —

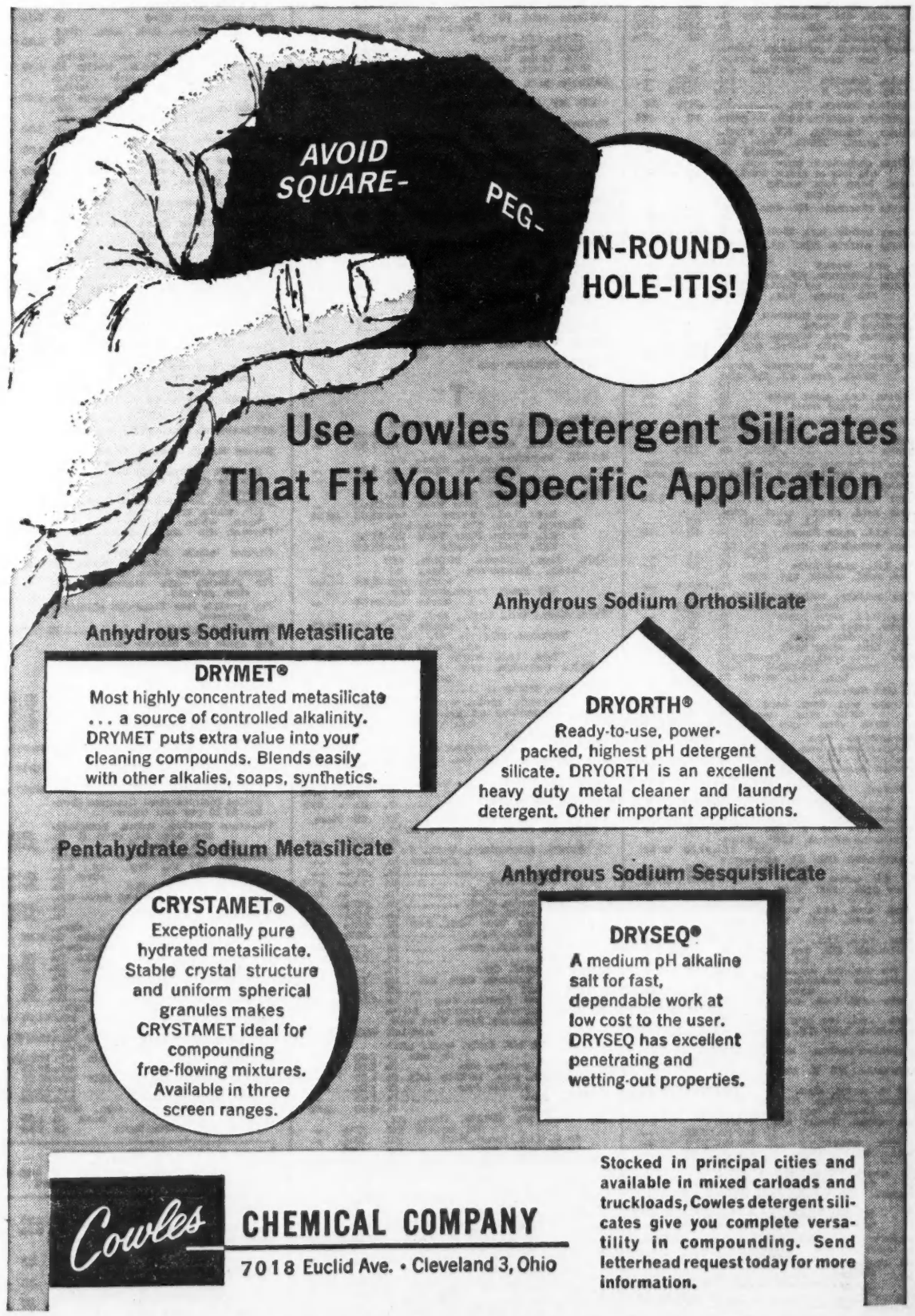
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .33½ - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .35½ - —
fib. dms., smaller lots, works lb. .38½ - .40½

Sorbitan tristearate, fib. dms., 20,000-lb. lots, works lb. .34 - —
fib. dms., 10,000 to 20,000-lb. lots, works lb. .36 - —
fib. dms., smaller lots, works lb. .39 - .41

Sorbitol, NF, reg., 70% aqueous, dms., c.l., works lb. .18 - —
dms., l.c.l., works lb. .19 - —
tanks, works lb. .16¼ - —
cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
dms., 1 to 5-ton lots, works, lb .25 .26
powd., dms., c.l., works lb. .38½ - —
dms., 10,000 to 20,000 lb. lots, works lb. .40½ - —
Sorbitol, soln., comyl., aqueous, dms., c.l., works lb. .26 - —
dms., l.c.l., works lb. .27 - —

Soya protein, chemically isolated, old process, bgs., c.l., works, lb. .23 - —
bgs., l.c.l., works lb. .23¼ - .23½
Chemically isolated, new process, bgs., c.l., works lb. .20 —
bgs., l.c.l., works lb. .20¼ - .20½

Soybean meal, 44% bulk, unrestricted, Decatur ton. 54.00 - —


AVOID SQUARE-PEG-IN-ROUND-HOLE-ITIS!
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Anhydrous Sodium Metasilicate
DRYMET®
Most highly concentrated metasilicate ... a source of controlled alkalinity. DRYMET puts extra value into your cleaning compounds. Blends easily with other alkalies, soaps, synthetics.
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Stocked in principal cities and available in mixed carloads and truckloads, Cowles detergent silicates give you complete versatility in compounding. Send letterhead request today for more information.

Soybean oil, crude, tanks, Decatur, lb. .10 - —
Foots, soapstock, acid 95%, tanks, lb. .05 - —
Refd., alkali, dms. lb. .1430- .1455
tanks lb. .1230- —
Clarified, dms. lb. .1380- .1405
tanks lb. .1180- —
Salad, dms. lb. .1420- .1445
tanks lb. .1220- —
Soybean oil acids, dbl. dist., dms., lb. .16 - .18½
tanks lb. .13½- —
S. D., dms. lb. .14¾- .17¼
tanks lb. .12¼- —
Sparteine sulfate, cns., 100 oz. or more oz. .80 - —
Spearmint leaves, dom., bls lb .75 - —
Spearmint oil, NF, dms lb. 7.00 - 7.80
Sperm oil, bleached winter, 45°, dms lb. .1675- .1775
tanks lb. .1475- —
Nat., winter, 45°, dms lb. .1575- .1675
tanks lb. .1375- —
Spermaceti wax, blocks, cs lb. .32 - .33
Cakes, cs. lb. .33 - .34
Spruce oil, cns., dms. lb 2.10 3.55
Squill, white, bls. lb .16 .18
Powd., bbls., bxs. lb .17 - .20
St. John's bread, edible, bls. lb. .17 - —
Stannic chloride, anhyd., dms., works lb. .808 - .830
Stannic oxide, dms., dlvd lb. 1.07½- 1.08½
Stannous chloride, anhyd, dms., works lb. 1.007 - 1.256
Hydrous, cryst., dms., works lb. .86½- .87½
Stannous sulfate, dms., works lb. 1.056 - 1.076
Star root (see Helonias root)
Stargrass root (see Aletris root.)
Stavesacre seed, bgs lb .60 .61
Stearic acid, dbl., pressed, bgs lb. .15¼- .17¾
Single-pressed, bgs. lb. .14¼- .17¼
Triple-pressed, bgs. lb. .17 - .19½
Stoddard solvent, petroleum, tanks, east coast, New Jersey, New York gal. .18 - —
tanks, Houston gal. .1475- —
tanks, group 3 gal. .12875- —
Stramonium leaves, bgs. lb. .16½- .18
Streptomycin sulfate, bulk, gram. .03 - .032
Strontium bromide, NF, cryst., gran., 150-lb. dm., frt. equald lb. 1.00 - —
Strontium carbonate, pure, dms. 5-ton lots or more, works lb. .35 - —
dms., 1-ton lots, works lb .37 - —
Tech., dms., works lb .19 - —
Strontium chromate, fib, dms., dlvd. lb. .48 - —
Strontium iodide, jars, 25-lb lots lb 3.57 - —
Strontium nitrate, bgs., c.l., works, 100 lbs. 11.00 - —
bgs., l.c.l., works 100 lbs. 12.00 - —
Strontium salicylate, NF, dms lb 1.88 - —
Strontium sulfate, air floated, 90%, 325 mesh, bgs., works, ton 56.70 - 66.15
Strophanthin G (see Quabain, USP)
Strophanthin K bots. oz. 25.00 - 25.50
Strophanthus seed, Kombi, biologically tested, bgs lb 3.50 3.75
Styrax gum, USP cs. lb. 4.50 5.50
Styrene monomer, polymer grade, 99.6%, dms., c.l., frt. alld. lb. .17 - —
dms., l.c.l., same basis lb. .19 - —
tanks, same basis lb. .14½- —
Styrene monomer, tech., 99.2%, dms., c.l. lb. .1504- —
dms., l.c.l., same basis lb. .1704- —
tanks lb. .1254- —

Above prices are escalated for each calendar quarter on the basis of cost of benzene and petroleum refining labor.

Styrolyl acetate, bots lb. 1.03 - 1.10
Succinic acid, purif., cryst., dms., t.l., frt. alld lb. .62 - —
dms., l.t.l., same basis lb. .63 - .75
Succinic anhydride, dms., c.l., t.l., dlvd lb. .51 - —
dms., l.c.l., same basis lb. .52 - —
Sucrose, refd., white, bgs., refy lb. .0970- —
Sucrose acetate, isobutyrate, 90%, dms., t.l., dlvd lb. .33½- —
dms., l.t.l., same basis lb. 35 - —
tanks, same basis lb. .31 - —
100%, t.l., dms., dlvd. lb. .35½- —
l.t.l., dms., same basis lb. .37 - —
Sucrose octa-acetate, denaturing grade, 100-200-lb. lots, bgs., l.c.l., works lb. 1.00 - —
Sugar (see Sucrose).
Sugar cane wax, dom., refd., slabs, 80-lb ctns., works lb .60 .65
80-lb ctns., spot lb .65 .75
Sulfabenzamide, dms. kilo 8.80 9.90
Sulfabenzamide-sodium, dms kilo 9.00 10.10
Sulfacetamide USP, fib dms kilo 6.61 6.83
Sulfacetamide-sodium USP, fib dms kilo 8.15 9.25
Sulfadiazine, USP, microcrystals, dms kilo 23.35 24.45
USP, powd., dms. kilo 22.60 23.70
Sulfadiazine-sodium, USP dms kilo 24.80 25.90
Sulfaguanidine NF X, dms kilo 5.50 6.60
Sulfamerazine-sodium, USP, powd., dms kilo. 24.80 25.90
Sulfamethazine, USP XV microcrystals, dms kilo 19.65 20.75
USP XV powd., dms kilo 18.75 19.85
Sulfamic acid, cryst, dms., c.l., t.l., works 100 lbs 16.00 —
dms., l.c.l., t.l., works 100 lbs 17.50 18.50
Gran., dms., c.l., t.l., works 100 lbs 14.75 —
dms., l.c.l., t.l., works 100 lbs 16.25 17.25
Sulfanilamide, NF, reg., 1,000 lb., frt. equald lb 1.50 - —
NF fib dm., frt equald lb 1.55 - —
Sulfanilamide quinoxaline, veterinary dms kilo. 16.28 - —
Sulfanilic acid, tech, dms, c.l., frt. alld lb. .21 - —
dms., l.c.l., frt alld lb. .23 - —
Sulfapyridine, USP XV, powd., bots., tins kilo. 15.45 - 16.55
Sulfapyridine-sodium, monohydrate, dms kilo. 16.55 - 17.65
Sulfathiazole, NF X, microcrystals, dms kilo. 6.25 6.90
NF X, powd., dms. kilo 5.50 6.15
Sulfathiazole-sodium, NF X, dms., 1,000-lb. lots or more lb. 2.35 —
Sulfur, comL., flour, bgs., mines, 100 lbs 2.35 - —
bbls., mines 100 lbs 3.30 - —
lump, bgs., mines 100 lbs 2.25 - —
bbls., mines 100 lbs 2.80 - —
Sulfur crude, dom., bright, bulk, f.o.b cars, mines long ton 23.50 - —
export, f.o.b vessels, Gulf ports long-ton 25.00 - —
US and Canada f.o.b vessels Gulf ports long-ton 25.00 —

Domestic dark sulfur prices are $1 per long-ton lower

Sulfur, crude, imp., Mexican, bulk, filtered, f.o.b., vessel, Coatzacoalcos long-ton 24.00 —

Mexican dark sulfur price is $1 per long-ton lower.

Sulfur, refd., flowers, NF, bgs., mines 100 lbs. 5.65 - —
bbls., mines 100 lbs. 7.00 - —
flour, light, bgs., mines 100 lbs. 5.25 - —
bbls., mines 100 lbs. 6.25 - —
lump, bgs., mines 100 lbs. 4.95 - —
rolls, bgs., mines 100 lbs. 5.50 - —
bbls., mines 100 lbs. 6.25 - —
salt block, bgs., mines 100 lbs. 4.65 - —
virgin block, bbls., mines 100 lbs. 4.70 - —
Sulfur, rubbermakers, comL., reg., bgs., mines 100 lbs. 2.45 - —
bbls., mines 100 lbs. 3.70 - —
98-100%, passing through 325 mesh, bgs., mines 100 lbs. 2.55 - —
bbls., mines 100 lbs. 3.80 - —
Sulfur, rubbermakers, refd., bgs., mines 100 lbs. 4.90 - —
bbls., mines 100 lbs. 6.05 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.75 - —
bbls., mines 100 lbs. 4.00 - —
Sulfur dichloride, ret. dms., c.l., works, frt. equald lb. .05¼- —
ret. dms., l.c.l., same basis lb. .06¼- —
tanks, same basis lb. .04½- —
Sulfur dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi-unit cars, works lb. .0535- —
tanks, works lb. .045 - —
Sulfur dioxide, refrigeration, cyls., dlvd lb. .33 - —
Sulfur monochloride, 55-gal. non-ret. dms., c.l., frt. equald lb. .05¼- —
dms., l.c.l., same basis lb. .06¼- —
tanks, same basis lb. .04½- —
Sulfuric acid, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
cbys., l.c.l., works 100 lbs. 2.30 - —
tanks, works ton. 18.60 - —
Sulfuric acid, 66° Be, cbys., c.l., works 100 lbs. 2.25 - —
cbys., l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton. 22.35 - —
98% tanks, works ton. 23.50 - —
99% tanks, works ton. 23.70 - —
Sulfuric acid, 100%, tanks, works. ton. 23.95 - —
CP, NF, consumers' cbys., c.l., frt. equald lb. .12¾- —
Sulfuric acid, CP, NF, consumers', cbys., l.c.l., same basis, lb. .14¼- .14¾
5-pt. bots., extra, cs., c.l., works, frt. alld lb. .16¼- —
5-pt. bots., extra, cs., l.c.l., same basis lb. .17¾- .18¾
Sulfuric acid, fuming (oleum), 20%, tanks, works ton. 25.00 - —
40%, tanks, works ton. 29.00 - —
65%, tanks works ton. 39.50 - —
Superphosphate, run-of-pile under 22% a.p.a., pulv., bulk, c.l., Baltimore unit-ton. .90 .93
bulk, c.l., Carteret, N. J. unit-ton. .90 .93
Superphosphate, triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. 1.00 —
bulk, f.o.b. vessel at Fla unit-ton. 1.05 - —
Sweet birch oil, USP, northern, cns lb 4.00 9.50
USP, southern, cns lb. 2.00 3.05

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2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
dms., l.c.l., same basis lb. 1.25 - —
2,4,5-T, isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
dms., l.c.l., works lb. 1.29 - —
Talc, dom., fibrous, grd., bgs., c.l., works, New York ton. 28.00 —
bgs., l.c.l., works ton. 31.00 - 36.00
fibrous, 99.5%, 325 mesh, bgs., c.l., works, New York ton. 31.00 - —
bgs., l.c.l., works ton. 34.00 - —
Talc, dom., fibrous, 99.95%, 400 mesh, micronized, bgs., c.l works ton. 38.00 - —
625 mesh, micronized, bgs., c.l., works ton. 80.00 —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton. 34.00 - 39.50
Vermont, off-color, grd., bgs., c.l., works ton. 19.40 —
bgs., l.c.l., works ton. 37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton. 20.00 - 35.00
tanks, works lb. .02⅞- .03⅛
Tall oil, crude, tanks, works lb. .03 - .03¼
Dist., depending on grade, dms., c.l., works lb. .07 - .09¼
tanks, works lb. .05¼- .08
Tall oil, refd., depending upon grade, dms., c.l., works lb. .07¾- .08¼
tanks, works lb. .05¾- .07½
Tall oil acids, dms., c.l., works lb. .07 - .10
dms., l.c.l., works lb. .07½- .10½
tanks, works lb. .05 - .07½
Tallow, edible, tanks, dlvd. lb. .09 Nom.
Inedible, fancy, bleachable, tanks, lb. .06¼- —
fancy, guaranteed, bulk, f.o.b. steamer lb. .06⅝- —
dms., f.a.s. lb. .07⅝- —
tanks, dlvd. lb. .05⅜- .06½
No. 1, tanks, dlvd. lb. .05¼- .05¼
Prime, tanks, dlvd. lb. .05⅞- —
Special tanks, dlvd. lb. .05⅜- —
Sulfonated, 25%, bbls., l.c.l lb. .08½ .08¾
50% bbls., l.c.l. lb. .10½- .11
Tallow acids, dist., dms lb. .11¾- .14¼
tanks lb. .09¼- —
Hydrogenated, dms. lb. .14 - .16½
Tallow oil, acidless, dms., c.l. lb. .13½- —
dms., l.c.l. lb. .14½- .15½
Tangerine oil, Florida, dms lb 4.75 —
Tankage, animal, feeding, 9-11% ammonia, New York bulk, unit-ton. 4.75 5.00
Tannic acid, NF, fluffy, bbls., 1,000-lb lots lb. 2.05 —
bbls., smaller lots lb. 2.06 2.07
NF, powd., bbls., 1,000-lb. lots lb. 1.95 —
bbls., smaller lots lb. 1.96 1.99
Tech., dms lb. 1.05 —
Tansy oil, dms lb. 6.60 8.00
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .53½- —
dms., l.c.l., same basis gal. .55½- —
tanks, same basis gal. .43½- —
Tar acid oil, 25-28%, dms., c.l., same basis gal. .60 - —
dms., l.c.l., same basis gal. .62 - —
tanks, same basis gal. .50 - —
50-53%, dms., c.l., same basis gal. .75 - —
dms., l.c.l., same basis gal. .77 - —
tanks, same basis gal. .65 - —
Tar, coal (see Coaltar).
Tartar emetic (see Antimony potassium tartrate).
Tartaric acid, NF, 100-lb bgs., c.l., frt. equald lb. .41 —
bgs., 10,000 lbs. 1 shipt., same basis lb. .43 - —
bgs., smaller lots, same basis lb. .47 - —
Terpine hydrate, NF, cryst., powd., 100-lb. fib. dms lb. .70 - —
Terpineol, extra, dms. lb. .50 - .60
Prime, dms. lb. .40 - .50
Terpinyl acetate, extra, cns., dms. lb. .64 - .75
Prime, dms. lb. .53 - .56
Terpinyl propionate, dms. lb. 1.65 - 1.70
Testosterone, USP, bots. gram. No prices.
Testosterone propionate, USP bots. gram. No prices.
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Tetrachloroethylene, tech. (see Perchloroethylene).
Tetrachloroethylene, USP, 55-gal. dms., c.l., t.l., works lb. .20½- —
dms., l.c.l., works lb. .22 - .23½
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .60 - —
dms., l.c.l., dlvd. E lb. .61½- —
Tetraethyl pyrophosphate, 40%, cns., dms., frt. equald lb. .75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .53½- —
dms., l.c.l., dlvd. E lb. .55 - —
tanks, dlvd. E lb. .51 - —
Tetraethylthiuram disulfide, tech., dms., frt alld lb. 1.04 - —
Tetrahydrofuran, dms., c.l., t.l., works lb. .36½- —
dms., l.c.l., or l.t.l., works lb. .37 - —
tanks, works lb. .35 - —
Tetrahydrofurfuryl alcohol, dms., c.l., t.l., Memphis, Tenn. lb. .31½- —
dms., l.c.l., Memphis, Tenn lb. .32½- —
dms., c.l., t.l., Newark, N.J lb. .33½- —
dms., l.c.l., Newark, N.J lb. .34½- —
tanks, dlvd. E. of Denver lb. .31 - —
tanks, dlvd. W of Denver lb. .32 - —
Tetrahydrophthalic anhydride, dms., c.l., t.l., frt alld. E lb. .39 - —
l.c.l., t.t.l., same basis lb. .41 - —
Tetrapotassium phosphate (see potassium phosphate).
Thallium metal, dlvd lb. 7.50 - 10.00
Thallium sulfate, 99% bots., dlvd. lb 5.00 - 10.00
Theobromine, NF, fib dms. 100-lbs., f.o.b., works lb. 4.10 - 4.15
Theobromine and sodium acetate, USP, fib dms. 500-lbs. works lb. 6.45 - —
Theobromine, sodio-salicylate, NF, fib. dms., 500-lbs., works, lb. 3.80 - —
Theophyline, USP, anhyd., 100-lb. dms., frt alld lb. 3.65 - —
Thiamine hydrochloride, USP, fib. dms., frt alld kilo. 36.00 - —
USP, ampule grade, fib., dms., frt alld kilo. 38.00 - —
Thiamine mononitrate, USP, fib. dms., frt alld kilo. 36.00 - —
Thiocarbanilide, dms., ton lots lb. .74 - —
dms., less ton lots lb. .76 - —
Thiodiphenylamine (see Phenothiazine).
Thioflavin green toner, brilliant, molybdated, PMA, kgs., works lb 5.20 - —
Tungstated, PTMA, kgs., works lb 6.20 - —
Thioglycolic acid, refd., 55 gal dms., ton lots, 100% basis lb. 1.15 - —
Thiosalicylic acid, 80%, dms., 1,000-lb., lots, works lb. 4.00 - —
Thiourea, tech., bgs., t.l., frt alld. lb. .30 - —
bgs., ton lots, same basis lb. .32 - —
bgs., less than ton lots, same basis lb. .33 - —
Thorium nitrate, purif., fib dms., 100-lb. lots or more, works lb. 3.50 - —
dl-Threonine, dms., 100 kilos, works, kilo. 121.00 - —
Thyme leaves, French, triple sifted extra, bgs lb .27 - —
Spanish, extra, bgs lb. .12 - —
triple sifted, bgs lb .25 - —
Spanish, bgs. lb. .09 - —
Thyme oil, NF, red, cns., dms. lb. 2.00 - —
NF, white, cns lb. 2.20 - —
Tech., white, cns. lb. .40 1.85
Thymol, fib dms., 25-lbs., f.o.b. works lb. 2.45 - —
Thymol iodide, NF, dms 100-lbs f.o.b. works lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhyd.).
Tin crystals (see Stannous chloride, hydrous)
Tin metal (Straits) lb. 1.01 - —
Tin oxide (see Stannic oxide).
Tin sulfate (see Stannous sulfate).
Tin tetrachloride, anhyd. (see Stannic chloride, anhyd.)
Titanium dioxide, anatase, ceramic, bgs., c.l., dlvd lb. .25½- —
bgs., l.c.l., dlvd. lb. .26½- —
reg., bgs., c.l., dlvd. lb. .25½- —
bgs., l.c.l. dlvd. lb. .26½- —
metallurgical, nat., bgs., c.l., f.o.b. Jacksonville, Fla. ton. 180.00 - —
bgs., 5-ton lots, Niagara Falls, N. Y ton. 205.00 - —
bgs., ton lots, same basis ton. 215.00 - —

Milled metallurgical titanium dioxide $7.50 per ton higher

Titanium dioxide, rutile, nonchalking, bgs., c.l., dlvd E lb. .27½- —
bgs., l.c.l., dlvd E lb. .28½- —
Titanium dioxide-calcium pigment, 30% Ti O_2, reg., bgs., c.l., dlvd lb. .09¾- —
bgs., l.c.l., works lb. .09⅞- —
50% Ti O_2, high-tinting, dms., c.l., lb. .14⅜- —
dms., l.c.l. lb. .14⅞- —
Titanium hydride, powd., dms., works lb. 8.10 9.00
Titanium tetrachloride, tech., dms., c.l., works lb. .26 - —
dms., l.c.l., works lb. .27½- .29
tanks, works lb. .20 - —
Tobias acid, dms., c.l., t.l. lb. .81 - —
dms., l.c.l. lb. .84 - —
d-a-Tocopherols, NF, mixer, conc., pure basis, bots kilo. 67.00 - —
d-a-Tocopheryl acetate, NF, conc., pure basis, bots kilo. 122.00 - —
d-a-Tocopheryl acid succinate, cryst., bots kilo. 109.00 - —
dl-a-Tocopherol, bots. kilo. 99.00 - —
dl-a-Tocopheryl acetate, bots kilo. 90.00 —
25% dry, powd., bots kilo. 22.50 - 24.00
33% dry, powd., bots. kilo. 30.00 - 31.50
o-Tolidine base, dry, kgs., 100% basis lb. 1.55 - —
Paste, kgs., 100% basis lb. 1.50 - —

TOLUOL

Toluol quotations, both coaltar and petroleum, may be found under Toluene.

o-Tolidine, hydrochloride paste, kgs., 100% basis lb. 1.50 —
Tolu balsam, cns. lb. 3.50 - 3.65
Toluene, coaltar, indust., or nitration, tanks, dlvd. E. of Rockies gal. .25 - —
Toluene, petroleum, indust., tanks, f.o.b., frt. equald gal. .25 - —
p-Toluenesulfonamide, powd., dms., t.l., works lb. .60 - —
dms., l.t.l., same basis lb. .63 - —
Toluenesulfonic acid, 85-gal. dms., t.l., frt. alld lb. .16 - —
1,000-lb. or more, same basis lb. .18 - —
less than 1,000-lb., same basis lb. .23 - —
tanks, same basis lb. .14 - —
Toluenesulfonic acid in 10-gal. dms., 2c. per lb. more.
p-Toluenesulfonic acid monohydrate, dms., c.l., or t.l lb. .90 - —
dms., 125 lbs. to t.l. lb. 1.00 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .83 - —
dms., l.c.l., same basis lb. .84 - —
tanks, same basis lb. .82 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .30 - —
dms., l.c.l., same basis lb .31 - —
tanks, same basis lb. .28 - —
p-Toluidine, tech., flake, dms., frt. alld lb. .50 - —
Cast, dms., frt. alld. lb. .45 - —
p-Toluidine-m-sulfonic acid, dms., works lb. .92 1.04
Toluidine red toner, deep shades, kgs., works lb. 1.70 - —
Light shades, kgs, works lb. 1.70 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. 1.10 - —
Tonka beans, Angostura, cks. lb. 1.50 - —
Brazilian, Surinam, cs. lb. 1.30 - —
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .22 - —
dms., l.c.l., t.t.l., works lb. .28 - —
Tragacanth gum, No. 1, ribbons, cs lb. 4.10 4.20
No. 2, cs. lb. 3.75 3.80
No. 3, cs. lb. 3.40 3.65
USP, powd., bbls. lb. 1.05 1.15
Triacetin dms., c.l., dlvd. E. of Rockies lb. .39 - —
dms., l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Triallylamine, dms., c.l., dlvd lb. .985 - —
dms., l.c.l., dlvd. lb. .995 - —
tanks, dlvd. lb. .96 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver, lb. .42½- —
non-ret. dms., l.c.l., frt. alld. E. of Denver lb. .43½- —
tanks, frt. alld. E. of Denver lb. .40 - —
Tributyl phosphate, dms., c.l., works, tb. .52½- —
dms, l.c.l., same basis lb. .53½- —
tanks, same basis lb. .50 - —
Tributylamine dms., c.l., works lb. .67½- —
dms., l.c.l., same basis lb. .69 - —
tanks, same basis lb. .65 - —
Tributyrin, dms., l.c.l., dlvd lb. .69 - —
Trichloroacetic acid, tech., 300-lb. dms., c.l., f.o.b works lb. .52 - —
USP, 100-lb. dms., frt. equald lb. 1.25 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .15 - —
dms., l.c.l., frt. alld. E lb. .16 - —
tanks, frt. alld. E lb. .13¼- —
Trichlorobenzene prices in the West 1¾c. higher
1,1,1-Trichloroethane, dms., c.l., dlvd. lb. .13¼- —
dms., l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .12¼- —
1,1,2-Trichloroethane, dms., c.l., works lb. .13½- —
dms., l.c.l., dlvd. E lb. .14¼- —
tanks, works lb. .11½- —
Trichloroethylene, dms., c.l., or t.l., dlvd lb. .12½- —
dms., l.c.l., dlvd. lb. .14 - .14½
tanks, dlvd. lb. .11¼- —
Trichloroisocyanuric acid, dms., c.l., t.l., frt. equald lb. .65 - —
dms., l.c.l. same basis lb .75 - —
Trichlorophenoxyacetic acid (see 2,4,5-T).
Tricholine citrate, 65% soln., ret. cbys., works, frt adjusted, lb. 1.40 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
dms., l.c.l., dlvd. lb. .36 - —
tanks, dlvd lb. .32½- —
Tricresyl phosphate, petroleum, dms., c.l., dlvd lb. .35 - —
dms., l.c.l., dlvd. lb. .36 - —
tanks, dlvd. lb. .32½- —
Tridecyl alcohol, mixed isomers, dms., c.l., dlvd. E lb. .26½- —
dms., l.c.l., dlvd. E lb. .28 - —
tanks, dlvd. E lb. .24 - —
Triethanolamine, dms., c.l., dlvd. E, lb. .24½- —
dms., l.c.l., same basis lb. .26 - —
tanks, same basis lb. .22 - —
Triethanolamine lauryl sulfate, dms., c.l., t.l., frt. alld lb. .25½- —
dms., l.t.l., frt. alld. lb. .26½- —
tanks, frt alld. lb. .24½- —
Triethylamine, dms., c.l., dlvd. E, lb. .50 - —
dms., l.c.l., same basis lb. .51½- —
tanks, same basis lb. .47½- —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld E, of Denver lb. .46¼- —
non-ret. dms., l.c.l., frt alld. E. of Denver lb. .47¼- —
tanks, frt. alld. E. of Denver, lb. .43¾- —
Triethyl phosphate, dms., c.l., dlvd. lb. .40½- —
dms., l.c.l., dlvd. lb. .42 - —
tanks, dlvd lb. .38 - —
Triethylene glycol, dms., c.l., dlvd, E lb. .21 - —
dms., l.c.l., dlvd. E lb. .22½- —
tanks, same basis lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .51½- —
dms., l.c.l., dlvd. E lb. .53 - —
tanks, dlvd E lb. .49 - —
Triisobutylene, tanks, dlvd. lb. .08 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .23¼- —
dms., l.c.l., dlvd. E lb. .24¾- —
tanks, dlvd E lb. .20¾- —
Trimethylamine, anhyd., cyls., l.c.l., frt. equald, 100% basis lb. .30 - .303
tanks, frt. equald, 100% basis, lb. .26 - —
25-40% soln., dms., c.l., frt. equald, 100% basis lb. .35 - —
dms., l.c.l., frt. equald, 100% basis lb. .35½- —
tanks, 100% basis, frt. equald lb. .26 - —
Trimethylolpropane, dms., c.l., t.l., dlvd. E lb. .35 - —
dms. l.c.l., l.t.l., same basis lb. .36 - —
Trioxanes, pure, dms., c.l., t.l., works lb. .50 - —
dms., l.c.l., works lb. .51½- —
Tripentaerythritol, bgs., c.l., t.l., dlvd. E lb. .34 - —
bgs., l.c.l., l.t.l., dlvd. E lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .41½- —
bbls., l.c.l., frt. equald lb. .43½- —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene, dms., c.l., dlvd. E gal. .44 - —
dms., l.c.l., same basis gal. .54 - —
tanks, same basis gal. .28 - —
Tripropylene glycol, dms., c.l., t.l., frt alld E lb. .20½- —
dms., l.c.l., l.t.l., frt. alld. E lb. .22 - —
tankcars and compartmented tankcars, frt. alld. E lb. .17½- —

Tripropylene glycol, tankwagon and compartmented tankwagons, 1,000 gals. min. frt. alld. E lb. .18 • —

Tripropylene glycol prices 1c. per lb. higher in west.

Trisodium phosphate (see Sodium phosphate tribasic).

dl-Tryptophane, dms., 1 kilo, works kilo.154.00 • —

Tung oil, dms., New York lb. .24 • .24½

tanks, imported lb. .22 • .22¼

tanks, domestic, mills lb. .22 • —

Tungsten metal, powd., 2.0-2.3 microns, dms., works lb. 4.25 • —

Tungstic acid tech., dms., 1,000-lb lots, works lb 2.25 • —

dms., smaller lots, works lb. 2.45 • —

Turkey red, bbls, works lb. .62 • —

Turpentine, gum (see Protective Coatings market, Naval Stores).

Turpentine oil, NF, cns., dms lb. .28 .50

Tuscan red bbls., frt equald lb. .26 .32

Tyrothricin, USP, 1 to 5 kilos gram. .50 • —

U

Ultramarine blue, cobalt type, dry or pulp, 250-lb bbls., dlvd. E. of Rockies lb. .30½- .35

Jobbing types, dry, bbls., same basis lb. .16 • .22½

Regular types, dry bbls., same basis lb. .16 • .37½

Ultramarine blue prices 1c higher W. of Rockies.

Umber pigment, burnt, American, bgs., c.l., works lb. .07½- .07¾

bgs. l.c.l. works lb. .07¾- .08

Umber pigment, burnt, turkey-type, bgs., c.l., Boston, Bethlehem Easton, Pa., Hiwassee, Va., N. Y lb. .08¼- —

Raw, American, bgs., works lb. .07¼- .08¼

Turkey-type, bgs., works lb. .08½- .08¾

Undecylenic acid 55-gal. dms., f.o.b. works lb. 1.28 • —

Unicorn root, false (see Helonias root).

Unicorn root, true (see Aletris root).

Urea 46% N, indust, bgs., c.l., t.l. dlvd. E ton.98.00 • —

bgs., l.c.l. dlvd E ex whse ton.100.00 • —

45% N, agricultural bgs. c.l. (30 tons) dlvd. E ton.100.00 • —

Urea-ammonia liquor A, B, C & F grades, N basis, tanks, frt. equald ton.120.00 • —

37 grade, tanks, same basis ton.145.00 • —

Urethane USP dms., t.l., f.o.b., works lb .65 • —

dms., l.c.l., same basis lb. .70 • —

Uva-ursi leaves, bls lb. .12 • —

V

Valerian root, Belgian bgs. lb. .32 • —

Indian, bgs. lb .25 • —

dl-Valine, dms., 1 kilo, works kilo.37.00 • —

Vanadium pentoxide, tech., dms., works lb. 1.38 • —

Vandyke brown, bbls, works lb. 09½- .12

Vanilla beans, Bourbon, tins lb. 8.00 • —

Mexican cuts, tins lb. 8.00 • —

whole, tins lb. 9.00 • —

Vanillin ex lignin, 100-lb. fib. dms., 2,000-lb. lots or more lb. 3.00 • —

less than 2,000 lbs lb. 3.20 • 3.30

Venetian red, jobbing, bgs., works. lb. .0473- —

Venetian red, 20%, bgs., works lb. .0525- —

25%, bgs., works lb. .0575- —

30%, bgs., works lb. .06 • —

35%, bgs., works lb. .0625- —

40%, bgs., works lb .0675- —

Vetiver oil, Bourbon, cns. lb.17.00 -17.25

Haitian, cns. lb.12.00 -14.00

Victoria blue toner, molyhdated, PMA 250-lb. bbls., dlvd. E. of Rockies lb. 4.50 • 4.95

Tungstated, PTMA, 250-lb bbls., dlvd. E of Rockies lb 5.55 • —

Victoria blue toner, bbls., prices 1c. higher W of Rockies.

Vinyl acetate monomer, zone 1, 55-gal. dms., c.l., dlvd lb. .1810- —

55-gal. dms., l.c.l., dlvd lb. .1960- —

tanks, dlvd. lb. .1560- —

tanktrucks less than 4,000 gal., dlvd lb. .1610- —

Zone 2, 55-gal. dms., c.l., dlvd lb. .1910- —

55-gal. dms., l.c.l., dlvd lb. .2210- —

tanks, dlvd. lb. .1660- —

tanktrucks, less than 4,000 gals., dlvd lb. .1710- —

Zone 1 is all continental US except zone 2, zone 2 comprises Ariz., Calif., Idaho, Mont., Nev., Ore., Utah and Wash.

Vinyl n-butyl ether, tech., dms., l.c.l., works lb. .50 • —

Vinyl chloride monomer, tanks, works, min. frt. equald. E. lb. .0891- —

Vinyl ether, USP, anethesia, bots., 50cc., hospitals bot. 1.12 • —

bots. 75cc. hospitals bot 1.56 • —

Vinyl ethyl ether, tech., dms., c.l., works lb. .30¼- —

dms., l.c.l., works lb. .31 • —

tanks, works lb. .28¼- —

Vinyl propionate monomer, dms., c.l., dlvd lb. .49 • —

dms., l.c.l., same basis lb. .50 • —

tanks, same basis lb. .47 • —

Vinyl trichloride (see Trichloroethane).

2-Vinylpyridine, 10 dms. to tanks, works lb. 1.20 • —

1 to 9 dms., works lb. 1.35 • —

tanks, works lb. 1.15 • —

Vinyltoluene, dms., c.l., f.o.b., works. lb. .16½- —

dms., l.c.l., same basis lb. .18½- —

tanks, f.o.b. dest. frt. prepaid lb. .14 • —

Viosterol in nat. vegetable oil, 1,000,000 D units per gram, bots., lots of 10 billion USP units 1,000,000 units. .02½- —

Virginia type red, bbls., works lb. 1.40 • —

Vitiamin A acetate, syn., cryst., beads, 500,000 A units per gram gram .07¼- —

Vitamin A acetate, dry, 500,000 units per gram, kilo lots kilo.65.00 • —

325,000 units per gram, same basis kilo.43.88 • —

250,000 units per gram, same basis kilo.33.75 • —

Dry vitamin A acetate in less than kilo lots, $1.25 to $2.50 per kilo higher.

Vitamin A, liq. in oil, 1,000,000 A units per gram 1,000,000 units. .09½- —

Vitamin A palmitate, liq., 1,000,000-1,800,000 A units per gram 1,000,000 units. .09¼- —

Vitamin B_1 (see Thiamine hydrochloride).

Vitamin B_2 (see Riboflavin and Yeast).

Vitamin B_{12}, cryst., USP (cyanocobalamin), 1-50 grams, vials, tins gram.45.00 • —

0.1% vitamin B_{12}, USP, adsorbed on gelatin, 100 and 500-gram bots on 1-5 kilo dms gram.1.00 • —

Vitamin B_{12}, 0.1% vitamin B_{12}, USP, adsorbed on resin, 100 and 500-gram bots., 1-5 kilo dms., gram. 1.00 • —

Vitamin B_{12}, oral grade solids in containers of 1 and 10 gram of B_{12} activity gram.52.00 • —

0.1% trituration of cryst., B_{12} with dicalcium phosphate or mannitol, 1-10 kilo.52.00 • —

Vitamin B_{12}, 0.1% cobalamin concentrate, NF, adsorbed on resin, 500-gram bots., 1-5 kilo, dms. frt. alld. gram. .90 • —

0.1% cobalamin concentrate in gelatin, 1-10 kilo, dms., frt. alld gram. .90 • —

Vitamin C (see Ascorbic acid).

Vitamin D_2 (see Codliver and Fishliver oils, Calciferol and Viosterol).

Vitamin D, dry, 850,000 units per gram, kilo lots kilo.42.50 • —

850,000 units per gram less than kilo lots kilo.45.00 • —

Vitamin E (see a-Tocopherol and Wheat germ oil).

Vitamin H (see Biotin).

Vitamin K, active (see Menadione).

Vitamin K^1, 25-gram lots gram. 4.50 • —

Violet methyl toner (see Methyl violet toner).

VM&P naphtha (see Naphtha, VM&P, petroleum).

W

Wahoo root bark, bls. lb. 2.00 • 2.25

Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.93 • —

dms., 25-49-lb. lots, New York or Chicago lb 2.05 • —

dms., 5-24-lb lots, New York or Chicago lb 2.15 • —

Watchung-type reds, bbls lb. 1.95 • —

WAXES

Wax quotations are listed individually. For example, prices on Wax, carnauba, may be found in the C's under Carnauba wax.

Wheat germ oil, 5-gal. dms. gal.12.25 • —

White lead (see Lead, white).

White mineral oil (see Mineral oil, white).

White pine bark, rossed, bls. lb. .21 • .22

White precipitate, USP, powd., dms., 100 lbs., f.o.b. works lb. 5.50 • —

Whiting (see Calcium carbonate).

Wild cherry bark, thin, nat., bls. lb. .30 • —

Wintergreen oil, USP nat. northern, cns. lb. 6.35 -17.50

USP, nat. southern cns lb. 3.75 - 7.00

Wintergreen oil, syn. (see Methyl salicylate).

Witch hazel bark, bls lb. .30 • .35

Witch hazel leaves, bls lb. .55 • .75

Wollastonite, fine, paint grade, bgs., c.l., works ton.41.00 • —

bgs., l.c.l., ex whse ton.51.00 • —

Medium, paint grade, bgs., c.l., works ton.29.00 • —

bgs., l.c.l., ex whse ton.39.00 • —

Wood alcohol (see Methanol).

Wood oil (see Tung oil).

Woolfat crude (see Degras).

Woolfat USP (see Lanolin).

Wormseed Levant bgs lb. 2.50 • —

Wormseed oil (see Chenopodium oil NF).

Wormwood oil, cns lb. 4.75 • —

X

Xylene, coaltar, indust., tanks, works:

Bethlehem, Pa. gal. .29 • —

Birmingham dist. gal. .29 • —

Chicago dist. gal. .28½- —

Cleveland dist. gal. .29 • —

Xylene, coaltar, indus., tanks, works:

Geneva, Utah gal 29 • —

Johnstown, Pa. gal 29 • —

Lackawanna, N.Y. gal. .29½- —

Lone Star, Tex. gal 27 • —

Lorain, Ohio gal. 29 • —

Middletown, Ohio gal 30 • —

Xylene, coaltar, indust., tanks, works:

Minnequa, Colo. gal 29 • —

Philadelphia dist. gal 29 • —

Pittsburgh dist. gal 29 • —

Sparrows Point, Md. gal 29 • —

Terre Haute, Ind. gal 29 • —

Youngstown, Ohio gal 29 • —

Xylene, petroleum, indust., tanks f.o.b. works:

Bayonne, N. J gal 29 • —

Baytown, Tex. gal 27 • —

Charleston, S. C. gal 29 • —

Chicago, Ill gal. 28½- —

Detroit, Mich., dlvd gal. 27½- .28

Houston, Tex. gal 27 • —

Philadelphia, Pa. gal. 29 • —

Providence, R. I. gal. 30 • —

Sewell's Point, Va. gal. 28 • —

Wood River, Ill gal. 28½- —

m-Xylene, 95%, dms., c.l., f.o.b., Richmond, Calif lb. .25 • —

dms., l.c.l., f.o.b., Richmond, Calif lb. .26 • —

tanks, frt. alld. lb. .23 • —

o-Xylene, dms., c.l., works lb. .08 • —

dms., l.c.l., works lb. .09 • —

tanks, works lb. .06 • .06½

p-Xylene, dms., c.l., works lb. .20 • —

dms., l.c.l., works lb. .21 • —

tanks, frt. alld. lb. .1645- —

—Continued on page 30

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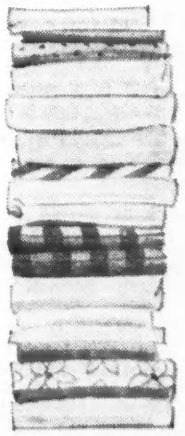
Heavier molecular weight ALKANE 60 is second to none in quality and performance. It can provide you a heavy-duty detergent with:



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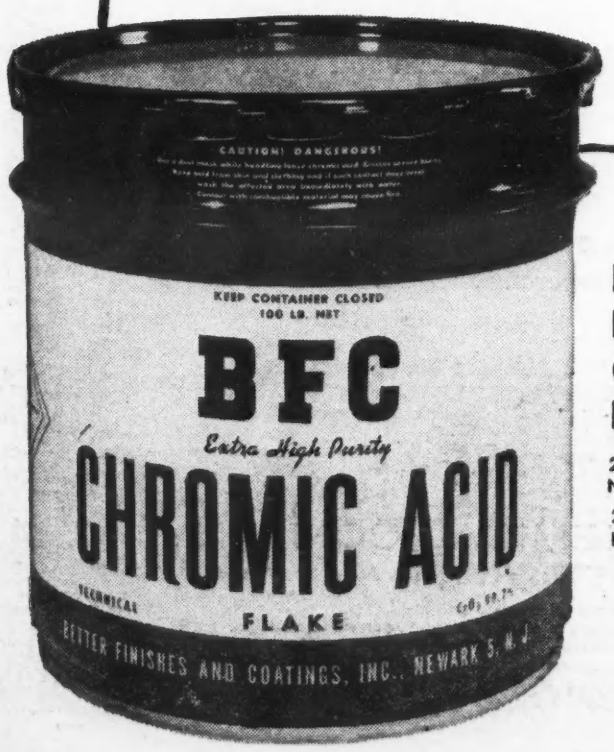

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Heavy Chemicals

The advance in east coast sulfur prices has become problematical. One US producer says it has been studying the price announcement to determine what the effect might be on the market, but that it is not changing its own pricing policy at this time. The announcement, calling for a $2 advance which would affect East Coast ports, was made last fortnight by a Mexican firm. A spokesman for the US company questioned the move in several particulars. Since the posted advance would become effective on contract "when present contracts permit" and most of the business in this market is done under long-term contracts, would the advance really change prices in the market? it was asked. At this writing the trade is awaiting further developments. Since a true price spread is all but impossible in this competitive market, it's expected that somebody will change his mind.

In line with a long-standing announcement, sodium phosphate was advanced 15 cents a hundredweight at year's demise.

The American Paper and Pulp Association reported production for the week ended Dec. 24, at 73.6 percent of theoretical capacity, as compared with the revised figure of 92.3 percent for the previous week and 62.5 percent for the corresponding week of last year.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
106.81	106.81	106.84	103.56

For Current Prices see page 8

Acids

Boric—Consumers were buying for immediate needs as the year closed. Stocks were in balance, prices steady.

Chromic—Movement to Detroit slowed for year's end; appliance and novelty accounts remained inactive, as manufacturers prepared to move the remainder of their holiday stocks.

Hydrochloric — This item held firm through the year's demise. Chemicals and foods paced active outlets. Steel lagged.

Hydrofluoric—Near dormant was the metals trade, aluminum marking time against a high level of producers' stocks. But chemical accounts drew moderate amounts of acid to meet immediate needs.

Sulfuric—A firming of east coast prices, having emerged as a likely prospect when it appeared sulfur would cost more to consumers in the area, now seems less likely. One US sulfur maker has questioned whether the advance posted by a Mexican firm really amounts to an advance, and consequently the firm has not changed its own pricing policy.

Steel output was scheduled to hit a low of 1,122,000 net tons, or 39.4 percent of capacity last week, according to American Iron & Steel Institute. This compares with the previous week's 1,325,000 tons, or 46.5 percent of capacity. Output a month ago, AI&SI recalls, totaled 1,393,000 tons; a year ago it ran to 2,726,000 tons.

Bases and Salts

Aluminum Sulfate—Producers look forward to a brisk resumption of business after the lag of year's end, which was a matter of inventory wariness.

Borax—Automotive strength drew the borax market to a strong finish, and as the new models line up for the spring season sweepstakes, borax producers, with fingers crossed, trust the cars will sell well enough to keep the production lines moving.

Lime—Some plants were bogged in steel's bog, other were slowed by fertilizer's seasonal quienscence, while still others responded moderately to hand-to-mouth demand from chemical makers.

Sodium Phosphate—Prices have advanced 15 cents a hundredweight in line with a long-standing announcement. The industrywide boost affects all technical and food grades, reflecting rising costs of labor, power and raw materials.

Sulfur—More unsettled than ever is the pricing situation along the east coast. When a Mexican firm raised its quotations $2 a ton, the response from American producers was at first favorable, and it appeared allowances would be trimmed accordingly.

Then one producer began to raise questions. Since the posted price advance would become effective on contract "when present contracts permit" and most of the business in this market is done under long-term contract, would the advance really affect the market, it was asked.

In this skeptical mood, the company disclosed that it had not changed its pricing arrangement. At this writing, the trade is awaiting further developments. Since a price spread is all but impossible in this highly competitive market, somebody is expected to change his mind.

Nonferrous Metals

Aluminum—Primary aluminum production in the US in November totaled 161,208 short tons, the Aluminum Association reports.

This, a decline from October's 167,015 short tons but better than the 153,666 short tons produced in November, 1959, carried the year's total to date to 1,848,995 tons, up from 1,970,023 in the corresponding period of 1959.

The all-itme record month remains July, 1959, with 179,194 tons; and the all-time record quarter, the third of 1959, with 520,216 tons, the association notes.

Fluorspar—Output of domestic fluorspar increased during 1960 as the result of improved market conditions. About 237,000 short tons valued at nearly $10.6 million was reported by producers to the Bureau of Mines. The figures are preliminary. Prices during the year were virtually unchanged, Mines notes.

Copper—Consumption of copper-base scrap in the US in October totaled 101,000 tons, 11 percent more than in September and the largest since June, 1959.

Treatment of scrap rose 28 percent at primary producers and 5 percent at secondary smelters. A 2 percent decrease was registered by brass mills in their use of such materials, according to the Mines Bureau.

Lead—US mines produced 239,000 short tons of recoverable lead in 1960, the lowest domestic mine output reported since 1900, according to a preliminary report by the Bureau of Mines.

Adding refinery production and imports, total new supply reached about 1 million tons, a decline of 2 percent from the previous year.

Primary refineries turned out 376,000 tons of lead; secondary recovery totaled 412,000 tons, Mines reports. These represented increases of 10 and 5 percent, respectively, over 1959. Imports were 375,000 tons, a decline of 9 percent from 1959, Mines adds.

Mercury—A moderate increase in output of domestic mines, lower imports and consumption, and the lowest annual average price since 1953 marked the mercury industry in 1960, reports the Bureau of Mines.

Output at US mines totaled 31,500 flasks, up from 31,256 in 1959. Imports through September, 1960, were only 13,300 flasks, as against 22,900 in the same period a year earlier.

Industrial consumption during the three quarters was 37,000 flasks, as compared with 40,900 in the '59 period.

Consumption for the year as a whole is estimated by Mines to have dropped below 50,000 flasks for the first time since 1954. As in no year since 1954, there was a complete absence of industrial installations and expansions requiring mercury, Mines points out.

Titanium—Shipments of titanium mill products should reach 10.5 million pounds in 1961, up from an estimated 9.8 million pounds in 1960, according to a prediction by Business & Defense Services Administration. Aircraft engine programs and new applications should pace the advance, BDSA says.

Tin—Buying lagged during the short week, and prices closed unchanged at $1.01 a pound for straits metal, spot, Friday.

Zinc—Mines production of zinc in the US in 1960 was about 427,000 tons, slightly more than in 1959, according to an estimate by the Bureau of Mines.

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Obituaries

John H. MacMillan, jr.

John H. MacMillan, jr., chairman of the board and chief operating officer of Cargill, Inc., Minneapolis, Minn., died December 23 in Durham, N. C. He was sixty-five years old.

Mr MacMillan succeeded his father as president of the grain and vegetable oil company in 1937. During his twenty-year tenure in that office, the company more than tripled in size. He had been board chairman since 1957.

Joseph A. Deimling, assistant to the general products manager of Colgate-Palmolive Company's toilet articles division, died December 25 in Short Hills, N. J. He was forty-one years old.

John Clare Finn, a buyer for Allied Chemical Corporation, died December 25 in West Englewood, N. J. He was sixty-one years old.

Rene Forster, president of Rene Forster Company, New York, importers of aromatic chemicals and oil for perfumes, died December 29 in White Plains, N. Y. He was forty-four years old.

John T. Hurley, assistant general counsel of General Services Administration, died December 28 in Washington, D. C. He was fifty-eight years old.

James G. Marshall, a pioneer in the carbide industry, died December 28 in Niagara Falls, N. Y. He was ninety-one years old. Mr. Marshall is credited with having made possible the first commercial production of acetylene and carbon monoxide.

Hugh T. Williams, divisional manager of Owens-Corning Fiberglass Corporation, died December 23 in White Plains, N. Y.

Dry Color Meeting Jan. 11

Dry Color Manufacturers' Association will hold its first monthly luncheon meeting of the year Wednesday, January 11, at the New Weston hotel, New York. Speaker will be Max Saltzman, technical assistant in the research department of National Aniline Division, Allied Chemical Corporation. His topic will be "A Look at Color Specifications and the Instruments for Color Measurement."

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Chemical Industry's New Game: Watching

—Continued from page 3

and production records of companies in the food, drug and cosmetic industries.

According to FDA officials, the bill for pre-testing cosmetics for safety will be patterned along the lines of the new drug law. It will prohibit producers of cosmetics from marketing any product until they have proven to the satisfaction of FDA scientists that the product is safe.

Furthermore, FDA will insist that safety tests be run on the end-product and will not accept the view that since all ingredients may have been cleared as safe the final product therefore must be recognized as safe.

FDA's bill on extension of the food additives law probably will be in two parts—one part permitting limited extensions of the law, provided certain conditions are met; the other, to remove some of the ambiguity growing out of the conflict between the operations of the Delaney anti-cancer clause and the new drug law.

FDA wants to extend the food additives law in those cases where additives are currently under laboratory tests which cannot be completed before the March 6, 1961 effective date.

It wants the Delaney clause clarified so that additives that could be classed as a carcinogen under certain particular circumstances can be used in animal feeds as long as there is no residue in the food products.

Industry Seeks Law Revision

The chemical industry wants still another change in the law. If FDA doesn't ask for it, which it probably won't, industry hopes to get congress to include provision in the food additives law for appointment of scientific panels with authority to render opinions on the safety of the proposed use of an additive, and not be limited simply to the question of whether or not an additive is carcinogenic.

In the area of drug regulations, FDA is planning the re-introduction of the factory inspection bill it drew up last session as an aftermath of the Kefauver committee investigations.

This legislation (HR 12949 and S 3815) will be countered by a program of legislative "reforms" of broader scope from Sen. Estes Kefauver of Tennessee.

The senator is having bills drawn up by his staff restricting the patent rights of drug manufacturers; licensing the manufacture of prescription drugs; requiring a showing of drug "efficacy" as well as safety; discouraging the use of brand names by physicians in writing prescriptions, and providing for tight federal controls over drug advertising and promotion.

Also of interest to the drug industry are the bills sponsored in the past by FDA for closer supervision over the manufacture and distribution of barbiturates and amphetamines, which can be expected to make their appearance again, and, of course, the No. 1 legislative proposal of the Kennedy administration: medical care for the aged through the machinery of the social security system.

Air and water pollution control legislation will be the second area of major interest to the chemical industry in the new congress. An extensive investigation of air pollution problems and how they may be corrected is planned by the health subcommittee of the house commerce committee.

Meanwhile, Rep. John A. Blatnik of Minnesota has served notice he again intends to seek an expansion of federal authority in the field of water pollution and federal contributions for corrective measures.

Kerr-McGee to Construct Helium Extraction Plant

Construction of what is reportedly the first privately-financed helium extraction plant in the US for supplying the commercial market has been slated by Kerr-McGee Oil Industries, Inc., of Oklahoma City, Okla.

The company plans to start construction shortly at the Pinta Field, in Apache County, Ariz. The site is considered a favorable one because of its location in the western market, where 50 percent of US helium consumption takes place.

Kerr-McGee engineers calculate that the Pinta field has recoverable reserves of 7.5 billion cubic feet of gas. The recoverable reserves of pure helium are therefore 0.6 billion cubic feet.

The plant will manufacture a "Grade A" product (99.995 percent pure), which will be shipped to market by truck-trailer and by rail tankcars.

Petroleum Specialties

—Continued from page 5

expanding production of phthalic anhydride.

• Formation of Witfield Chemical Corporation with Richfield Oil Corporation, as a producer of alkyl benzenes.

• Announcement of a new 30 million-pounds-a-year phthalic anhydride plant to be built at Perth Amboy, N. J.

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Czechoslovakia Making Move in Petrochemicals

—Continued from page 4

ducing as much nitrogen in 1963 as is made now by the entire nation.

In Slovakia another nitrogen plant and a urea unit will be built by 1965. A third nitrogen plant is connected to the new East Slovakian Iron Works. The largest portion of cokeoven gases from the new combine will go for nitrogen fertilizer. The remainder is for polyethylene, polyvinyl chloride and neoprene-type rubber.

The Czechs also have big plans for their plastics industry. Production, which rose 43 percent, to 53,556 tons in 1959 from 37,351 tons in 1957, is scheduled to rise to 180,000 to 190,000 tons in 1965.

Emphasis will continue to be on thermoplastics, while thermosets (which declined from 56.9 percent of the total in 1957 to 54.9 percent in 1959) will drop even further.

Attention will be focused heavily on polyvinyl chloride, polyvinyl acetate and polystyrene as present plants are expanded. New works will be erected for polyethylene, polypropylene, polyvinyl butyral, polyisobutylene and polyformaldehyde.

The output of glass fiber-reinforced synthetic resins, reckoned at 900 metric tons in 1959, will rise to 7,000 tons annually by 1965.

A new plant for caprolactam as a raw material for polyamides is being built; also a current plant at Zilina which makes polyamides is being expanded.

Plans are also on the board for production of silicones with a number of end-products, particularly silicone rubber, as well as polytetrafluoroethylene, polytrifluoroethylene and polycarbonates.

The Czechs also plan to produce SBR rubber in 1963 on a large scale. One plant will be located at Kralupi, north of Prague, and will use synthetic ethanol as a starting product for butadiene.

Another plant will base its butadiene production on butene, and will probably be located at the "Slovnaft" refinery in Slovakia.

USI Makes Philip Gisser Its Director of Advertising

U.S. Industrial Chemicals Company, a division of National Distillers & Chemical Corporation, New York, has appointed Philip Gisser director of advertising and publicity.

Alexander J. Antuck has been named manager of USI's plastics advertising; Benjamin S. DeYoung has been made manager of agricultural advertising, and John F. Bicking has been appointed manager of chemicals advertising.

Mr. Gisser previously served as coordinator of advertising and publicity. Prior to joining USI in 1954, he was with Food Machinery & Chemical Corporation and the General Electric Company.

Chemical Men Listen

—Continued from page 5

House office. This would take in the Interstate Commerce Commission, the Civil Aeronautics Board and Maritime Commission.

• Creation of a third White House office on emergency, to do policy and planning work assigned to the Federal Power Commission.

Mr. Landis places the ICC at the top of the list of agencies in most need of reorganization. As to the FPC, he charges the agency with having failed to execute laws governing natural gas production.

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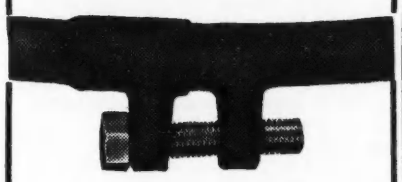

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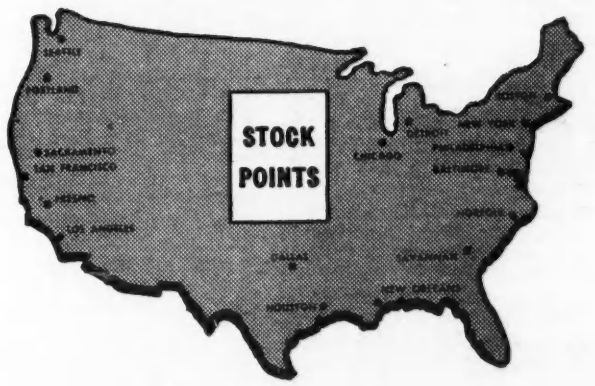

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Volume 179 January 2, 1961 No. 1

Business Must Be In It

Newspaper estimates are that nearly 4,000 "delegates" will attend the White House Conference on Aging which will be in session January 9 to 12. The sponsoring Department of Health, Education & Welfare has stated that more than 2,700 persons are expected to attend. In the language of the authorization statute, enacted September 2, 1958, "the conference shall bring together representatives of federal, state, and local governments, professional and lay people who are working in the field of aging, and the general public, including older persons themselves."

Is it strange—or what—that business is not specifically listed among the groups that will be represented? It is going to have a big place in all the numerous and various plans for doing something for the aging that have been and are being pronounced and promoted from all sorts of sources and in all sorts of places.

In a recent reference to the conference, HEW said that, of the 1,600 elderly delegates who had so far offered suggestions on what should be discussed at the conference, 600 selected income, health and medical care, family life and housing. Those all have a business interest. There is much more of it in item 4 of the planning committee's list of subject matter areas—"Retirement and employment security."

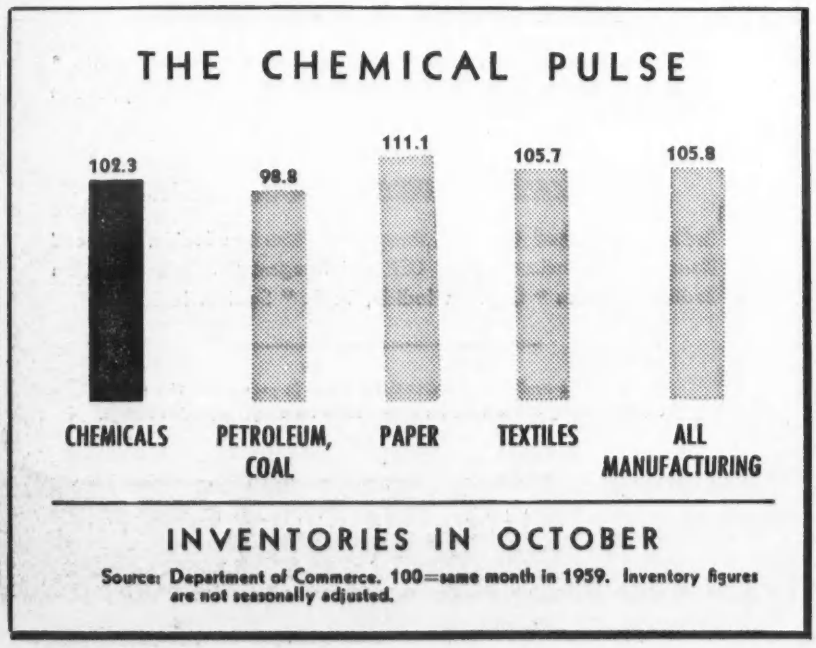
Every national business organization should take special steps to be properly represented in the conference on aging. Its members will be well rewarded to see and accept over the full scale of that gathering the wisdom of the advice given in mid-October by the Chamber of Commerce of the United States that business furnish post-retirement health insurance for all employees "to ward off a compulsory system financed by higher social security taxes."

Chemicals' Where-At

About a month ago, the business editor of a leading New York newspaper did twelve column-inches on "Formula for Growth Eludes Chemical Firms." The basis of his conclusion appeared to be the data that showed profits in the chemical industry not to be making the gains of the general economic scale. But, it missed the fact that chemical sales have increased at least as much as those of industry as a whole. However, its conclusion was good—"Chemistry doesn't pay quite so good a living as it used to."

For its readers who are faced every day with statements of completely opposite views on where the economy is and whether it is going, there was nothing unusual in seeing in the same newspaper not more than a week later a fourteen-inch two-column advertisement of a publisher of investment advice, headed "Chemical Stocks to Lead Again: Chemical industry expected to out-perform entire economy again when business turns up." Growth is a lot of things; but it is not the only thing that pays industrially.

Whether, if, and how it may be paying, the chemical industry is growing. That is quite clearly and convincingly set forth in reliable news items in almost every issue of OPD on plant expansions, new plants, new fields of research and new products.



Trade Name Chemicals

Urethane Coatings Taking Larger Share of $2 Billion Paint Business

Urethane coatings are chewing up an increasing portion of sales in the $2 billion paint industry. Tough, corrosion-resistant, maintenance paints formulated from one and two component urethane systems could account for as much as 8 percent of total paint industry sales within the next five years. Development of water-soluble urethane finishes is reported under way and urethane-polyethylene copolymer coatings show promise. Oil-modified urethanes are finding wider use since they can be applied from the container as with other conventional finishes. This is in contrast to the two component systems which require mixing just prior to application and have limited pot-life.

These oil-modified urethane materials are moving into production of clear floor varnishes because of better surface adhesion, coating life and resistance to mar, water and detergents. Use tests conducted by Cargill, Inc., Minneapolis, Minn., on wood floors subjected to normal traffic indicate that the life of a clear floor varnish is doubled by use of a urethane system. On steps, urethane coatings are said to last about three times as long as other varnishes.

Urethane Varnish Costs Compared

Varnishes utilizing urethanes cost 30-40 percent more than alkyd clear floor varnishes and are priced about the same as epoxy ester varnishes.

However, because varnish cost is small compared to labor cost for coating applications, Cargill maintains that considerable savings would result even if urethanes lasted only 10 percent longer than other types.

According to James M. Stanton, manager of Cargill's technical service laboratory, clear floor varnishes offer the largest potential market for urethane coatings, and will take up a large part of the 1.5 million gallons of urethane coatings—worth $7 to $8 million—sold during 1960-61.

During the next five to ten years, Mr. Stanton estimates that about 12 million gallons of urethane coatings worth $72 million will be sold yearly, the market making up about 8 percent of total paint industry sales. Floor varnishes will account for much of this increase, he says.

The biggest advantage offered by clear urethane floor varnishes is their quick dry ability which permits the resumption of normal floor activity as quickly as possible.

The fast-drying varnishes also allow rapid production of finished flooring. Within one day, a floor can be coated twice and the finish will become dry and hard enough to walk on—a feat impossible with other types of clear floor varnishes, says Mr. Stanton.

Drying Time, Analyzed

Drying time for an oil-modified urethane such as Cargill's "1459 M/S" (with 45 percent solids), is about thirty minutes compared to six hours for a modified alkyd clear floor varnish, three hours for a clear phenolic floor varnish, and two hours and forty minutes for an epoxy ester clear floor varnish. A similar clear varnish with 50 percent solids dries tack-free in seventy-five minutes.

Under physical testing, an oil-modified urethane clear varnish with 30 percent solids has a Sward hardness rating of about 48 (hardness of glass equals 100) compared to 24 for an epoxy ester clear varnish, 18 for a modified alkyd varnish and 16 for a phenolic varnish.

The ASTM Gardner falling sand test, in which coatings are exposed to falling sand for a period of time and then measured for the amount of coating worn off, yields an abrasion coefficient of 16 for a clear urethane floor varnish with 50 percent solids. (The smaller the coefficient rating, the harder the film.)

With 35 percent solids, the coefficient is 27. The coefficient for a phenolic varnish is about 45. It is 53 for a modified alkyd type and 37 for a lacquer.

Cargill does not market a finished urethane coating but only supplies the oil-modified system. There are approximately fifty to one-hundred companies in this country who manufacture clear floor varnishes. A considerable amount of urethane varnish is now sold directly to manufacturers of pre-finished flooring.

URETHANE COATINGS

Sales

1965 . . . 12.0 million gals.
1960 . . . 1.5 million gals.
1959 . . . . . 550,000 gals.
1958 . . . . . 200,000 gals.

Above are industry estimates

A formulation for a clear floor varnish with 30 percent solids recommended by Cargill's technical service laboratory for use by coating formulators would contain 438 pounds of "1459 M/S" oil-modified urethane and 266 pounds of mineral spirits per one hundred gallons of varnish, plus smaller amounts of naphthenates and an antioxidant.

Better Finishes & Coatings, Inc., Newark, N. J., reports another growing application for urethane paints as coatings for service stations. The company says an increasing number of service station owners on the East Coast are making use of urethanes to keep stations looking attractive at least four times as long as conventional paints.

Key to the superiority of urethane paints in applications such as this is their high surface hardness. Tests show urethane coatings are unaffected by complete immersion in gasoline, oils and solvents for three to four months, while alkyd paints in similar tests have remained intact only a week.

Oil, grease and dirt can't penetrate the urethane finish and soap and water restores the surface to its original gloss, it is said.

Better Finishes & Coatings' urethane paints incorporate urethane pre-polymers manufactured by Spencer Kellogg & Sons, Inc., Buffalo, N.Y. Applied by brush, spray or roller, the coatings are a two-package system.

Part A contains the resin and pigment; Part B is the solvent and urethane pre-polymer. When Parts A and B are mixed, a chemical cross-linking reaction begins between the resin and urethane pre-polymer. The paint film cures as the solvent evaporates.

Three Basic Systems Employed

Urethane coating formulations are usually made up in one of three basic systems. When mixed just before application, a two-package system of polyester resin and toluene diisocyanate addition product froms a high corrision resistant urethane coating.

Another type of urethane coating is available in the form of pre-polymers. Toluene diisocyanate is reacted with hydroxyl-containing resins to produce long-chain polymers. These pre-polymers are then further reacted with catalysts at the time of application to form the urethane film.

The highest chemical resistance and durability is obtained with baking types. In this form resin and TDI-adduct can be blended with catalysts and other ingredients in one package and will not react until the coating is baked.

Under most conditions, a baked urethane coating will not require a primer. However, in applications where the finish is subject to heavy corrosion attack, a polyvinyl butral-based primer is used. Epoxy-amine primers are used for best results when the finish is exposed to chemicals and solvents.

Aliphatic Organics

A leading refiner of natural glycerine one-upped the competition early last week, posting a 2 cents a pound across-the-board reduction, retroactive to December 23. A few days before, in a move that shattered the idle, yet festive, pre-holiday business calm—traditionally a time when nothing important happens—two manufacturers of the synthetic product cut prices 1¾ cents a pound, the initiator terming the revised schedule a reflection of general business conditions, particularly the fair surplus of crude worldwide and the reasonably soft domestic market.

Learning last week that three leading refiners had adopted a still lower schedule, both synthetic manufacturers went to work immediately and shaved off the ¼ cent differential, one firm making the change retroactive to December 8. So as matters now stand, leading factors in both segments of the trade are quoting at the same level, albeit a ten-year low.

Other price developments last week included reductions for both trichloroethylene and trimethylolpropane. Cut 8 to 12 percent by a major manufacturer —which recently announced plans to close its Michigan plant and consolidate all manufacturing activities at Niagara Falls—the trichlor schedule now ranges from 11¼ cents a pound, tankcars delivered, to 14 cents a pound for less than truckload quantities (14½ cents west of the Rockies). Market for the widely-used metal degreasing solvent, harassed by lower-cost imports, has been intensely competitive; action on domestic prices was expected.

Reduced 4½ cents a pound January 1, trimethylolpropane now lists at 31½ cents a pound in carload quantities. The lower price is expected to allow the chemical "to make competitive entry into the expanding market for alkyd resins and urethane foams."

Overlooked, perhaps, because of the significant price news was a report that a maker of synthetic glycerine has completed an expansion of facilities that substantially increases overall industry capacity. The same firm indicates that its new acrolein plant is on stream but, while running production to captive end-uses, it has not yet tackled the open-market.

Although imports have become an increasingly important factor in domestic markets, most of the US chemical trade are no longer fighting the problem but facing it head on. One solution, they've found, is investing money in foreign facilities, be they independent or joint ventures with overseas firms or governments.

A second solution—and one obviously favored by the Treasury department, understandably concerned about the flight of US capital—is exports. These, the Commerce department says, exceeded imports this past year by $5 billion, a gratifying upturn that reflected, among other things, greater shipments of chemicals and such chemical products as synthetic rubber and man-made fibers.

Will the favorable export balance continue into 1961? This question, it seems, will depend less on what the US trade does and more on what happens abroad. Commerce feels the industrial boom in Europe supported the rise in 1960 exports and adds this cautionary note: Some shipments were one-shot affairs. Completion of chemical manufacturing facilities abroad, for example, may be a negative influence on exports of synthetic rubber and methanol.

While the dollar-prodded boom in the West German economy since World War II, which has permitted an invasion of world markets including the US, is sometimes resented by business here, it should not be forgotten that the new republic is a major buyer of US goods. Its chemical purchases, for instance, rose from $20 million in the first half of 1959 to $37 million in the comparable period in 1960.

To the Commerce department goes much of the credit for the upturn in exports. During the past year it has diligently promoted what amounts to a necessity for a sizable segment of the chemical industry which needs to find foreign markets for production which as yet cannot be readily absorbed domestically.

Price Trends

Advanced
None

Reduced
Glycerin, nat'l, refd., 2c. per lb.
Syn., ¼c. per lb.
Trichloroethylene, t.c., dlvd., ½c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
130.57	130.58	130.70	132.90

For Current Prices see page 8

Acrolein—A major chemicals producer has brought on stream its first commercial-scale acrolein facility and, according to a company spokesman, production is already flowing to internal requirements. As yet, however, no open market sales of the chemical have been made.

It would appear, based on two factors, that big things are expected of acrolein. The first is plant capacity, estimated at between 30 and 40 million pounds annually; the second, longstanding interest in the chemical.

Back in 1946, the firm started a pilot plant but this operation was discontinued a few years later. Since then, however, the firm has undoubtedly investigated potential markets for the chemical, drawing conclusions from its research that ultimately led to the construction of production facilities.

Initially priced at $1 a pound (as a development item, it commanded a high price), acrolein is now posted at 31c. a pound in tankcars, and 36c. to 36¾c. a pound for lesser quantities. This schedule was established last August, the result of an across-the-board reduction of 15c. a pound.

There are not now any good indications that a further price cut is in the works though the possibility, of course, always exists.

Acrylates—Producers of acrylates enter the new year with appreciably lower price schedules and the prospect of increased competition from one of their number that has just completed an expansion of facilities. In addition, this firm also will be producing glacial acrylic acid on a commercial scale shortly. Indications are, however, that the firm will consume most of its acid output captively.

The lower prices on ethyl, methyl, butyl and 2-ethylhexyl acrylates are expected to spur R&D work with the chemicals, ultimately producing larger and diversified markets to compensate for the smaller margin of profit. Competition between and among the two sets of companion products is still going to be keen, of course, as end-use patterns are quite similar.

Molasses—Importers of molasses are reported hoarding blackstrap in fear that Cuban supplies may be shut off in 1961.

US buyers purchased nearly 196 million gallons from Cuba in the first nine months of 1960, up from 72 million gallons in the comparable period a year earlier. Blackstrap prices at the same time have headed upward.

Several million gallons of blackstrap were brought in at Philadelphia during the week ended December 12. Sources cited the three separate shipments as indicative not only of the molasses situation, but also of the market for ethyl alcohol. The latter reportedly is quite tight.

Vinyl Chloride Monomer—The tankcar quote on vinyl chloride monomer is now 8.91c. a pound, f.o.b. works, freight equalized with recognized producing points. Established December 20, this price is 2.39c. below that previously posted (11.3c., on October 15), and an all-time low.

Factors behind the price reduction were not clear-cut or obvious. Some observers figured that trading prices had weakened to a point where a positive firming influence via an official change to a low, competitive level was necessary. Others suggested that it might be a move to win business or discourage thoughts of backintegrating reportedly in the minds of some polymer producers.

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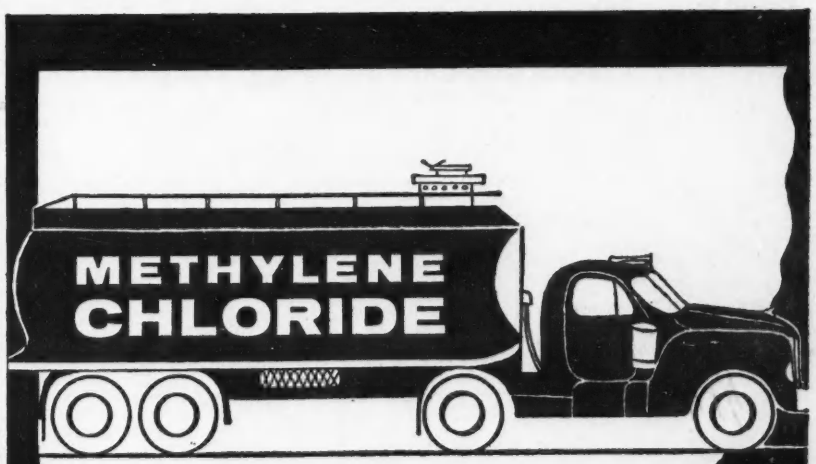

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Current Market Quotations

—*Continued from page 23*

Xylenol, cryst., 43°-47°C., m.p., dms., l.c.l., works, frt. equald	lb.	.23	- —
86°-88°C., m.p., dms., l.c.l., works, frt. equald	lb.	.33	- —
Xylenol, cryst., 60°-62°C., m.p., dms., l.c.l., same basis.	lb.	.40	- —
Xylenol fraction, b.r. 7°-9° C., dry above 227° C., dms., c.l., same basis	gal.	1.25	- —
dms., l.c.l., same basis	gal.	1.30	- —
tanks, same basis	gal.	1.05	- —
b.r. 7°-9° C., dry at or below 227° C., dms., c.l., same basis.	gal.	1.35	- —
Xylenol fraction, b.r 7°-9° C., dry at or below 227° C., dms., l.c.l., same basis	gal.	1.40	- —
2,4-Xylidine, tech., dms., frt. alld.	lb.	1.15	- —
2,5-Xylidine, tech., dms., frt. alld.	lb.	1.20	- —
Xylidines, mixed, o-m-p, dms., c.l., or t.l., works	lb.	.39	- —
dms., l.c.l., same basis	lb.	.40	- —
tanks, same basis	lb.	.38	- —

XYLOL
Xylol quotations, both coaltar and petroleum, may be found under Xylene.

Y

Yara yara oil, cns.	lb.	2.15	- 3.05
Yeast, brewers, debittered, USP XV, Saccharomyces, dlvd	lb.	.27	- —
Yeast, brewers, primary, USP XV, 150 meg. B^1 per gram, 100-lb. dms	lb.	.47	- —
USP XV, 270 mcg., B_1 per gram, 100-lb dms	lb.	.53	- —
Yeast, brewers, primary, USP, XV, 300 mcg., B_1 per gram, 100-lb. dms.	lb.	.56	- —
USP XV, 900 mcg., B_1 per gram 100-lb. dms.	lb.	.60	- —
Torula USP dlvd	lb.	.18	- —
Yerba santa leaves, bls.	lb.	.40	.45
Ylang-ylang oil, Bourbon, bots	lb.	7.00	-22.00
Ylang Ylang oil, Bourbon, extra bots	lb.	24.00	-33.00
Yohimbine hydrochloride, bots., tins.	oz.	3.73	4.23

Z

Zein, bgs., 36,000-lb. lots or more, bgs., 500-lb lots or more, dlvd	lb.	.343	- —
bgs., smaller lots, dlvd	lb.	.373	- —
Zinc acetate, NF, VIII, dms.	lb.	.53	- —
Tech., dms., t.t.l., works	lb.	.29¼	- —
Zinc borate, bgs., 1,000 lbs or more, works	lb.	.25	- —
bgs., less than 1,000 lbs., same basis	lb.	.27	- —
Zinc chloride, NF, gran., dms	lb.	.42	- —
NF, precip., powd., dms	lb.	.26	- —
Tech., soln., 50%, dms., c.l., works 100 lbs.		5.80	- —
dms., l.c.l., works 100 lbs.		6.40	- —
tanks, works 100 lbs.		5.15	- —
fused, dms., c.l., works 100 lbs.		10.70	- —
dms., l.c.l., works 100 lbs.		11.20	- —
gran., fib. dms., c.l., works, 100 lbs.		11.45	- —
fib. dms., l.c.l., works 100 lbs.		11.95	- —
Zinc chromate bbls., dlvd.	lb.	.29	- —
Basic bbls., dlvd.	lb.	.34	- —
Zinc cyanide, dms., 1,000-lb. lots or more, works	lb.	.55	- —
dms., smaller lots, works	lb.	.57	- —
Zinc dust comi. bbls., c.l., works.	lb.	.16	- —
Pigment, bbls., c.l., works	lb.	.15½	- —
bbls., l.c.l., works	lb.	.17¼	- —
Zinc fluoride, bbls., works	lb.	.49	- .50
Zinc hydrosulfite, dms., c.l., frt. alld	lb.	.21½	- —
dms., l.c.l., frt. alld.	lb.	.23½	- —
Zinc metal, prime western, slabs, E. St. Louis	lb.	.12	- —
Prime western slabs, New York.	lb.	.12½	- —
Zinc naphthenate liq. 8% Zn., dms., frt. alld	lb.	.27	- —
10% Zn., dms., frt. alld.	lb.	.33	- —
Zinc nitrate, tech., flake, 100-lb. fib. dms., l.c.l.	lb.	.16½	- —
300-lb. fib. dms, l.c.l.	lb.	.14½	- —
300-lb. fib. dms., c.l.	lb.	.14	- —
Zinc oxide, pigment, American process, lead-free bgs. c.l., frt. alld	lb.	.14¼	- —
bgs., l.c.l., 10 tons or more, same basis	lb.	.15	- —
bgs., l.c.l., smaller lots, same basis	lb.	.15½	- —
Zinc oxide, leaded, 35% bgs., c.l., mills, frt. alld	lb.	.15¾	- —
bgs., l.c.l. 10 tons or more, same basis	lb.	.15½	- —
50%, bgs., c.l., same basis	lb.	.15¾	- —
pigment, American process, leaded, 50%, bgs., l.c.l., 10 tons or more, same basis.	lb.	.16¼	- —
French process, green seal, bgs., c.l., mills, frt alld	lb.	.16¼	- —
bgs., l.c.l., 10 tons or more, same basis	lb	16¼	- —
Zinc oxide, French process, green seal, bgs., l.c.l., smaller lots, same basis	lb.	.17¼	- —
red seal, bgs. c.l. same basis	lb.	.15¾	- —
Zinc oxide, French process, green seal, bgs., l.c.l., 10 tons or more, same basis	lb.	.16¼	- —
bgs. l.c.l. smaller lots, same basis	lb	16¾	- —
Zinc oxide, white seal, bgs., c.l., same basis	lb.	.16¾	- —
bgs., l.c.l., 10 tons or more, same basis	lb	.17¼	- —
bgs., l.c.l., smaller lots, same basis	lb	.17¾	- —
Zinc oxide, USP dms., c.l., frt alld.	lb.	.18¼	- —
dms., l.c.l., 10 tons or more, same basis	lb	.18¾	- —
dms., l.c.l., smaller lots, same basis	lb.	.19¼	- —
Zinc phenolsulfonate, NF, gran., dms	lb.	45	46
NF powd. dms	lb.	48	49
Zinc resinate precip 7.2-7.6% Zn., dms., frt. alld	lb.	.45	- —
Zinc silicofluoride dms. works	lb	12½	.14
Zinc stearate, USP, ctns., c.l.	lb.	.41	- —
	lb	41	— —
ctns. l.c.l.	lb	42	.46
Zinc sulfate, powd., monohydrate, 36% Zn. bgs. c.l. dlvd.E.	100 lbs	8.75	- —
bgs. l.c.l. dlvd. E	100 lbs	9.75	- —
Zinc sulfate in bbls 40c higher			
Zinc sulfide pure bgs. c.l. dlvd	lb	.2530	- —
Zinc undecylenate, 75-lb. fib. dms., f.o.b. works	lb.	2.04	- —
Zinc, yellow (see Zinc chromate)			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	10.25	- —
bbls., c.l., works	100 lbs.	10.85	- —
bbls., l.c.l. works	100 lbs.	11.35	- —
Zinc-formaldehyde sulfoxylate, basic, 300-lb dms., frt. alld	lb.	.26	- —
Normal, 250-lb. dms., frt. alld	lb.	.55	- —
Zircon (G) gran. bgs. c.l. works.	lb.	.03¼	- —
Zircon (G) gran., bgs., 5 tons to c.l., works	lb.	.03¾	- —
bgs., 1 ton to 9,999-lb lots, works	lb.	.04	- —
bgs., smaller lots, works	lb.	.06½	- —
Zircon (G) milled bgs. c.l. works.	lb.	.04¼	- —
bgs., 5 tons to c.l., works	lb.	.04⅜	- —
bgs., 1 ton to 9,999-lb. lots, works	lb.	.04¾	- —
bgs. 500-1,999-lb. lots, works	lb.	.07½	- —
Zircon (G) in barrels 1c. higher			
Zirconium acetate soln., 13% ZrO_2, dms. c.l. 30,000 lbs. min., works	lb.	.23	- —
Zirconium hydride powd. electronic grade, dms., works	lb.	14.00	-15.00
Zirconium oxide, CP, white, grd., bbls. or bgs., works	lb.	1.50	— —
Electric-fused lump, bgs., 500 to 1,999-lb lots, works	lb.	.48½	- —
bgs., smaller lots, works	lb.	.51	- —
milled bgs., c.l., works	lb.	.62	- —
bgs., 5-ton lots, works	lb.	.62½	- —
bgs., 1-ton to 9,999-lb. lots, works	lb.	.63½	- —
bgs., 500 to 1,999-lb lots, works	lb.	.64	- —
bgs. smaller lots, works	lb.	.66	- —
Glass polishing grade, 94-97% ZrO_2, bgs., works	lb.	.55	.65
Opacifier grade, 85-90% ZrO_2, bgs.,	lb.	.27	- .50
Stabilized oxide, 91% ZrO_2, milled, bgs	lb.	.63	.85
Zirconium oxychloride, cryst., ctns., 5-ton lots, works	lb.	.37½	- —

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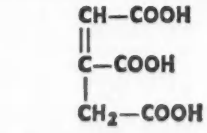

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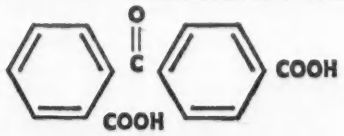

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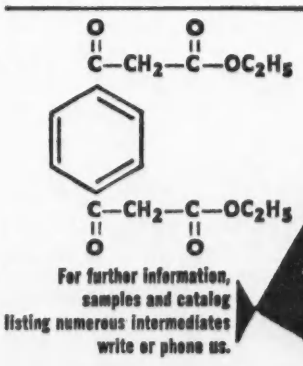

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Coal Chemicals

Buyers and sellers are facing the new year's pale promise with little optimism. Slipping into January with a steel rate estimated at the lowest level for any non-strike period in over twenty years only emphasizes the serious supply situation of most chemicals. Curtailed cokeoven operations in the last half of 1960 cut inventories of most products to the bone. Trade observers, wary after the propitious talk earlier this fall bore bitter winter fruit, now see little chance of substantial recovery before the second half of 1961.

Currently short among the basic products are benzene, naphthalene and pyridine. All are expected to remain so through the first half until steel rate climbs and additional capacity in the form of petroleum facilities come on stream.

Among the intermediates, greater supply is forecast for maleic anhydride with supply conditions for phthalic anhydride and styrene monomer dependent upon the availability of benzene and naphthalene.

Production of coal chemicals for October as compiled by Tariff Commission show relatively few changes from the previous month's figures.

Among significant increases were—

Cresylic acid—up 1 million pounds to 5.8 million pounds from September's 4.8 million pounds.

Monochlorobenzene—up 3.5 million pounds to 47.1 million pounds from the previous month's output.

Toluene—up 1.9 million gallons to 25.5 million gallons from September's 23.6 million.

Decreases of note occurred in—

Dodecylbenzene — down 12 million pounds to 29.4 million pounds after a 43 million pounds plus September.

Naphthalene—down 1.4 million pounds to 37 million pounds after 38.4 million the month before.

Styrene monomer—down 3 million pounds to 145 million pounds after 148 million in September.

Please note that January 1 price changes will not be reflected in the Current Market Quotations as these postings reflect prices at the close of business Friday (December 30). January 1 price changes will therefore be posted in the January 9 issue.

American Iron and Steel Institute estimated steel production for the week ended January 1 would amount to 39.4 percent of theoretical capacity, equivalent to 1,122,000 tons of steel.

Output in the previous week was 1,325,000 tons, 1,393,000 in the comparable week one month ago, and 2,726,000 tons during the corresponding week one year ago.

Price Trends

Advanced
None
Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
117.45	117.45	117.55	118.48

For Current Prices see page 8

Basic Products

Benzene—Production of benzene in October from all sources was 35,375,717 gallons, a slight decline from September.

Cokeoven supply of benzene increased to 8,610,058 gallons after totaling half a million less the month before.

Petroleum processors had their best month of the year as 28,115,338 gallons were produced, up 1.6 million gallons from September.

Tar distillers' output dropped to 650,321 gallons, some 100,000 off their September pace.

Total volume for the first ten months of 1960 now tallies 377,827,908 gallons from all sources. Last year in the same period, some of which was plagued by the strike, total was 259,452,437 gallons.

Of the approximately 380 million gallons turned out in the first ten months of 1960, cokeovens have supplied 120 million gallons, or 31.6 percent, petroleum processors 250 million gallons, or 65.8 percent, and tar distillers 10 million gallons, or 2.6 percent.

Reports in the trade indicate more Soviet benzene will be arriving at US ports in 1961. Amount expected is 9 million gallons.

This volume represents unfulfilled commitments of the Soviets to a major American chemical company, according to trade observers, and not newly contracted material.

Cresylic Acid—Sharpened domestic demand, highly active export calls and reduced cokeoven production over recent months have firmed the market.

Price, however, remains stable with expectations that present levels will be maintained.

Production of refined cresylic acids from all sources hit 5,795,557 pounds in October, up 1 million from September.

Output in the first ten months of the year is 48.6 million pounds, only 1.1 million ahead of the same period last year.

Export calls through October are double what they were last year. Through the first ten months of 1960 exports of cresols and cresylic acid were 13.8 million pounds as against 6 million the year before.

Japan has been one of the major export customers with large volume material moving into its plastic raincoat industry.

Naphthalene—New prices for naphthalene take effect throughout January.

Increases range from ¼c. a pound by one major supplier, which takes effect January 7, to 1c. a pound by two other suppliers.

One of the 1c. hikes took place January 1, the other is set for January 15.

Suppliers who have increased prices 1c. are watching the market closely because of the ¼c. raise made by a lone competitor.

Sources believe the 7c. a pound level can be maintained despite the 6¼c. material being offered by the one producer.

Because of the tight supply situation no justification is necessary for the increases. Lower-yielding crudes, intense demand, higher costs in general have all contributed to the price hikes.

Observers find very little basis for any improvement in supply until the halfway mark of the year. Then it is expected steel rate will be respectable enough to support added supply of basic materials.

Dyes

On again, off again, that's the story of FD&C Red Number 1. Recently put on the prohibited list by FDA (OPD 11/28/60) because of incidence of liver damage in laboratory animals after tests employing the dye, it appears the agency is considering reinstating it for limited uses. Among them would be application in external drugs and cosmetics. Internal use apparently will continue to be banned.

Intermediates

2-Aminopyridine—A major producer has raised price of material 25c. to $2.75 a pound for bulk material.

Change became effective on spot December 23 and on contract January 1.

p-Nitroaniline—A major seller of this intermediate has informed its customers it has acquired the right to sell the non-captive production of a dyestuff company.

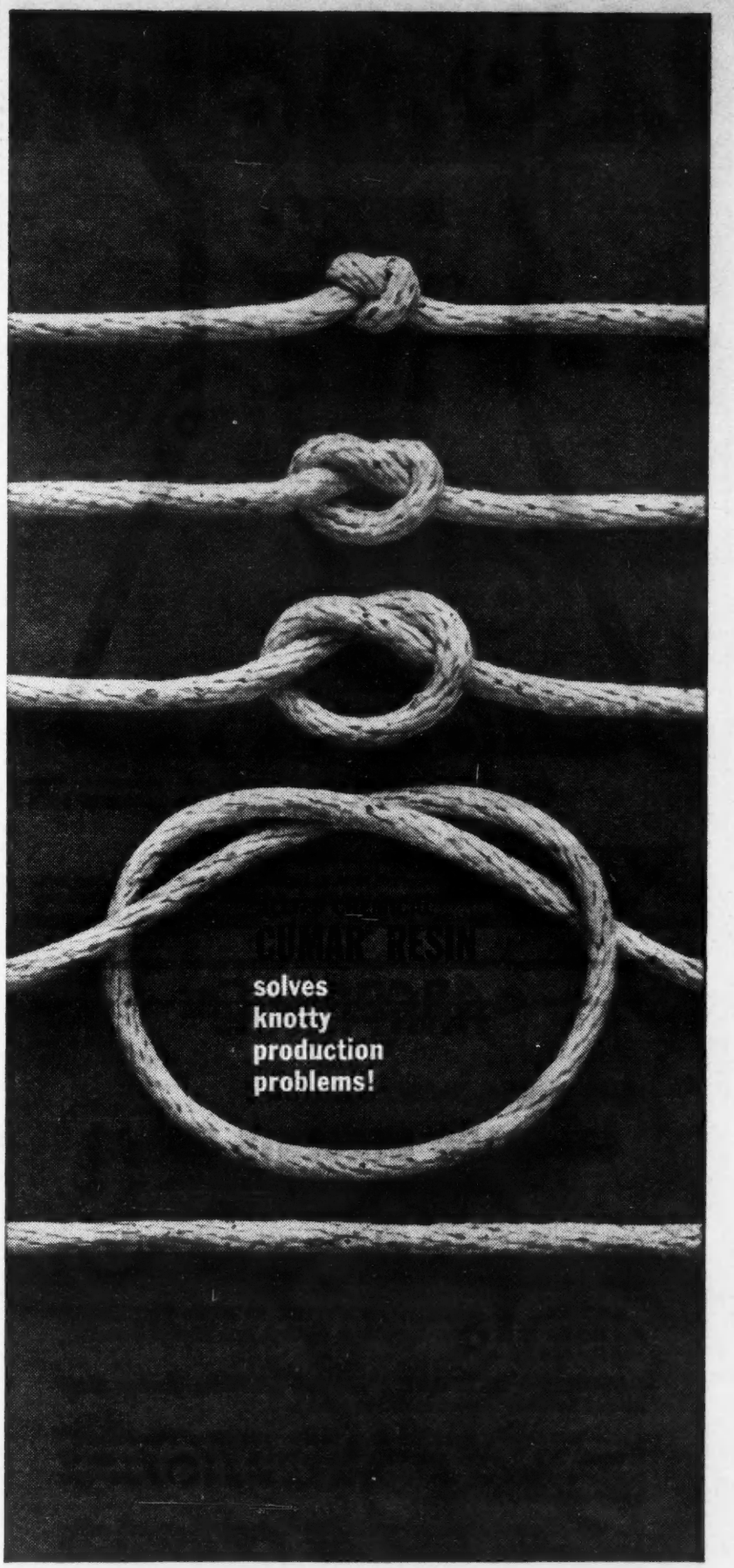
The seller points out that material from the new source is high in quality but that some problems have been encountered in the appearance and particle size of the finished product.

Currently working to alleviate the situation, the seller indicates supplies on hand from its other long-established source are adequate to meet calls and that with addition of new equipment, material of high quality from the new source will soon be offered in volume.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ended January 1, were as follows:

Ammonia liquor	lbs.	355,267
Ammonium sulfate	lbs.	14,940,954
Benzene	gals.	1,440,805
Coaltar	gals.	7,875,087
Crude chemical oil	gals.	230,266
Solvent naphtha	gals.	47,053
Toluene	gals.	322,372
Xylene	gals.	92,106



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GRIGNARD REAGENTS IN ETHYL ETHER: The n-Butyl and the Ethyl *Chlorides*, the Ethyl, Methyl, and Phenyl *Bromides*, and the Methyl *Iodide*.

GRIGNARD REAGENT IN AMYL ETHER: Methyl Magnesium Iodide ("Zerewitinoff" Reagent).

These are usually supplied as 3 Molar solutions; "Zerewitinoff" Reagent is 1 Normal; other halides, solvents and strengths are or can be supplied on special order (if in economical volume—not solely on laboratory scale).

For full information on properties, handling procedures and safety precautions or for data regarding CUSTOM SERVICES on finished products made via the versatile, effective and specialized *Grignard Reaction*, write Dept. "C" . . . Company letterhead please.

CUSTOM SERVICES

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- need pilot to commercial production while exploring sales potential?
- worry about control?

We specialize in producing organic compounds, intermediates (used in making hormones, vitamins, etc.) and semi-finished drugs, insecticides and pesticides on a volume basis.

Don't spend for plant until you are sure. It's better to hire us as many of our satisfied customers do. Want their names?

ARAPAHOE CHEMICALS, INC.
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PRODUCERS OF FINE ORGANIC CHEMICALS

Drugs, Fine Chemicals

The wave of optimism that rolled in with the new decade has subsided, and in the second year of what was hopefully termed the "soaring sixties" drug and fine chemical makers expect to face many of the problems which became acute during 1960. Briefly stated, these are continually downtrending prices and a narrowing profit margin; product mortality; intense domestic competition; the growing threat from imports; and the potential loss of world markets as other highly industrialized nations move to expand trade.

Trouble is also expected to emanate from Washington. Sen. Estes Kefauver has announced intentions to present an industry-restricting legislative program, and the antitrust division of the Justice department has several cases pending. Of course, Food & Drug Administration can be counted on to whip up any number of measures that will prove costly in terms of time and money to the drug makers.

Based on the industry's performance in 1960, it is logical to assume that marketing strategy in the coming year will be highly aggressive. Foreign ventures —via overseas subsidiaries or as joint operations with foreign firms or governments—will likely continue. So also, offensive price slashing to discourage imports.

This trend was clearly indicated last week as the sole US producer of synthetic camphor dropped prices for USP powder 5 cents a pound across the board. In a stiffly-worded statement, the firm said: "Foreign producers seem determined to dominate the industry. There is every indication that supplies are being dumped in this market for the purpose of upsetting domestic production."

Under the new schedule, USP camphor powder is quoted at 52 cents a pound for ton lots, at 53 cents for 1,000 pound lots, and at 54 cents for lesser quantities. Reduced at the same time, technical material now lists at 45 cents a pound, 3 cents below the former schedule.

n-Acetyl-p-Aminophenol — One of the major manufaceurers of n-acetyl-p-aminophenol posted higher prices for the chemical, December 16. Advanced 6c. a pound, the firm's new schedule lists truckloads at $1.30 a pound; 1,000 to 5,000-pounds at $1.40 a pound; and 100 to 250-pounds at $1.54 a pound.

These prices, however, are still below those quoted by a competitor. This firm's schedule, stable over the past four years reportedly, ranges from $1.45 a pound for 1,000 pounds, to $1.55 for 200 pounds, to $1.57 for 100 pounds.

Not surprisingly, word of the price advance came at a time when reports of tightening supplies of APAP became more frequent. Shortages have developed, it's said, because of the heavy demand for analgesic preparations.

Aspirin — Aspirin manufacturers have wound up an especially good year. Domestic consumption and exports are expected to be up appreciably when final tallies are published, and even prices are higher. July 1, schedules were advanced 1c. a pound to compensate for the rise in costs totally absorbed by the trade since the last price increase in 1957.

Further growth of the aspirin market can be looked for during the coming year. In addition to the normal increase in population growth, positive influences will include increased consumption of aspirin in the treatment of arthritis, a disease that has become more prevalent with the longer roll of oldsters, and use in combination drugs, such as "Planolar," reported here a few issues ago.

Lemon Bioflavonoid Complex—A major manufacturer recently switched from the avoirdupois to the metric system of packaging and pricing three citrus products. For 50-kilo lots, hesperidin is now quoted at $19.70 a kilo; hesperidin methyl chalcone at $49.25; lemon bioflavonoid complex at $14.20 a kilo; and pectin at $4.54 a kilo.

Cortisone—Prices for cortisone and hydrocortisone acetate are variously seen but it's understood the low of the range is 95c. a gram. Some few cents higher, hydrocortisone alcohol is said to be commanding $1 a gram.

The trend in these markets over the past several years has been steadily downward. Cortisone was listed at $5 a gram in 1953 but two years later it was down to $3.50. Here it remained for a stretch of three years, although one would logically suspect that trading was sometimes below this official schedule.

Since 1958, prices have dropped lower in successive stages. The changes, of course, became more and more notable as prices hit the $1 level and finally this past fall, 95c. a gram.

Competition among domestic suppliers as well as with importers is fairly keen and likely to continue so in 1961. Not to be ruled out are further price reductions. Nor a lesser requirement for cortisone.

Penicillin—Producers of penicillin start out the new year with all the old problems, the principal among them being low prices and correspondingly low profit margins.

Not officially posted, schedules are thought to range from $18 to $20 per billion units, procaine penicillin commanding the $2 premium. These prices are a far cry from the 1953 high of $90, and represent what the trade hopes will be rock-bottom lows.

Two important developments were reported in 1960. These were the introduction of several new synthetic penicillins and "Staphcillin," which promises to be effective against the hard-to-conquer staphylococcus germ.

Vitamin B_{12}—Treasury's decision (No. 55267, December 1, 1960) to reclassify Vitamin B_{12} as a coaltar derivative and the resulting increase in the import duty finds prices on foreign goods here up appreciably from earlier levels. There is still a gap—narrower, to be sure—between the imported and the domestic price, however.

The new classification of B_{12} was requested by a major, if not the major, producer of the vitamin in the US. The firm has not depended on the government to ease the pressures of foreign goods, of course, but has boldly reduced prices several times during the past year. The last cut, amounting to almost fifty percent, was made in early November.

While not assured, greater stability may result from today's very low prices. Not only do these discourage imports but they stimulate purchasing agents to "buy American."

Price Trends

Advanced
None

Reduced
Camphor, USP, syn., powd., 5c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
59.27	59.27	59.27	60.23

For Current Prices see page 8

Botanicals

Papain—Prices range from $5.50 to $10 a pound, the extensive spread necessitated by the various grades and types offered. Demand is routinely good.

A solution of the enzyme papain, obtained from the papaya plant, is most commonly used commercially to tenderize meats. This enzyme softens the connective tissue as well as the muscle protein. Because cooking inactivates the enzyme, no harmful effects have been reported from its use in this manner, according to the Journal of the American Medical Association.

Water-Soluble Gums—Imports of gum arabic during the first seven months of 1960 declined 23 percent from the comparable period the year before. Arrivals from Nigeria were off approximately 10 percent; no shipments were received from Egypt.

January-July imports of tragacanth and karaya gums, however, increased 49 percent and 6 percent, respectively, over the like period in 1959, Business & Defense Services Administration, an arm of the Commerce department, reports.

Arrivals of locust bean in the January-July period last year were 24 percent lower, BDSA says. Imports from Spain were only 937,670 pounds in 1960 compared with 2,408,057 pounds in the initial seven months of 1959; and from the United Kingdom, 72,800 pounds compared with 357,587 pounds.

Laboratory Data Sheet

VITAMIN C

ROCHE

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COATED ASCORBIC ACID—97.5%
SODIUM ASCORBATE

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- All types are uniform, readily soluble and easy to handle.
- Roche guarantees highest quality, held to rigid specifications.
- Quick delivery from strategically located warehouses.
- Packaged to protect original quality in sealed tamperpruf containers.

ASCORBIC ACID, U.S.P. Roche

TYPES	DESCRIPTION AND USES
GRANULAR TYPE 20-60	100% (±) passes through 20 mesh. 95% is retained on 60 mesh. Similar to granulated sugar in particle size. Satisfactory for direct addition to dried granulations.
FINE GRANULAR TYPE 40-80	100% (±) passes through 40 mesh. 95% is retained on 80 mesh. A free-flowing product similar to table salt in particle size. Recommended for tablet granulations where fine powder is considered less suitable because of denser packing.
SUPERFINE GRANULAR TYPE 60-100	100% (±) passes through 60 mesh. Approximately 25% remains on 100 mesh. 45-50% passes through 100 mesh and remains on 200 mesh. 25-35% passes through 200 mesh. A very fine free-flowing crystal suitable for dry gelatin capsules or tableting. Useful in dry mixtures, food supplements.
FINE POWDER TYPE 100	100% (±) passes through 100 mesh. Produced by grinding crystalline material. Non-abrasive on tableting dies. Widely used for granulations, solutions, food supplements. Minimizes fractionation of particles in dry mixtures.
ULTRA FINE (MICRO) POWDER TYPE 325	Minimum 99% through 100 mesh. Minimum 90% through 200 mesh. Milled extremely fine. Practically devoid of abrasive action on cutting dies. Screen tests above 200 mesh are unreliable because of variations in technique, equipment, humidity, static charges, etc. Sedimentation tests and measurement of particle size in microns reveal that 60-70% of Roche material is smaller than 44 microns (equivalent to 325 mesh).
AMPUL TYPE	Very fine crystals—easily dissolved. Minimum color. Specially produced and tested for use in parenteral solutions. See Roche technical brochure "Notes on Vitamin B_1 and Vitamin C Parenteral Solutions" for complete details.
TYPE F	Especially produced for use in the food industry. Free-flowing, will not dust or clump, dissolves easily. U.S.P. in quality. 100% through 50 mesh. 98-99% remains on 200 mesh.

COATED ASCORBIC ACID — 97.5% Roche

DESCRIPTION

Coated ascorbic acid 97.5% Roche is a fine, white, or nearly white powder. It is pure U.S.P. ascorbic acid powder coated with ethyl cellulose. The manufacture of coated ascorbic acid is licensed under Patent No. 2,410,417 to Roche and customers of Roche.

SPECIFICATIONS

Particle Size	100% through 16 mesh screen 75-92% through 40 mesh screen 45-80% through 60 mesh screen 35-60% through 100 mesh screen
Assay	Minimum 97.5% ascorbic acid
Identity test	Positive for ascorbic acid
Loss on drying	Negligible

USES AND DATA

Ethyl cellulose coated ascorbic acid Roche has these advantages in pharmaceutical tablet manufacture:

- Small size, high potency (250-500 milligrams) tablets of light color can be made from dry granulations with very little excipient.
- Aids in eliminating chipping and capping during compression.
- Retards discoloration, mottling during abnormal storage conditions.
- Reduces contact of ascorbic acid with reactive materials.
- Rapidly available in aqueous solution for assay.
- Provides a tablet with slower release of ascorbic acid, tending to reduce localized acidity sometimes experienced with high potency tablets.

FOOD MANUFACTURERS

- Manufacturers of cured meats can use this type to advantage for retarding smokehouse activity, and for better protection in spice mixtures. It may also provide longer protection of color and flavor during storage and display.

DATA ON PARTICLE FINENESS

Based on U.S.P. XV-pages 934-5; N.F. 10, pages 702-3; *Lange's Handbook of Chemistry 9th Edition, page 911

The fineness of "powders" is described in both the U.S. Pharmacopeia and National Formulary in terms which are related to the number assigned to a standard sieve made of woven wire cloth. The size of wire, and sieve opening are standardized, together with permissible variation in both average and maximum openings.

Sieve Number	Sieve Opening in Microns	Sieve Opening Mm.	Permissible Variation in Average Opening Per Cent	Permissible Variation in Maximum Opening Per Cent	Wire Diameter Mm.
50	297	0.297	± 5	± 25	0.170-0.253
100	149	0.149	± 6	± 40	0.096-0.125
200	74	0.074	± 7	± 60	0.045-0.061
*325	44	0.044	± 5	± 60	0.036

Standards are established for defining the fineness of powdered chemicals, together with a technique for determining the uniformity of fineness. The types of powders described in the U.S. Pharmacopeia and National Formulary do not represent the full range of particle sizes commercially available. No procedure is given for the determination of particle size in the "ultra-fine" or "micro powder" range, sometimes referred to as No. 325. This requires a sedimentation method and measurement in microns. Ordinary sieving methods are inaccurate.

The variation possible in the standard sieves plus such variables as the motion applied to the screen and physical characteristics of the powder being screened affect accuracy and duplicability of screening tests. Particle size specifications based on mesh sizes must always be regarded as nominal rather than as strictly accurate limits of particle size and distribution.

SODIUM ASCORBATE** Roche

This is the sodium salt of ascorbic acid. It is available as an odorless, tasteless, anhydrous, fine white powder or fine granular substance.

The antiscorbutic activity is in molecular proportion to ascorbic acid, one milligram of the sodium salt being equivalent to 0.889 milligram of the acid, or one milligram of the acid equivalent to 1.124 milligrams of sodium ascorbate.

Highly soluble in water—62 grams/100 ml at 25°C, 78 grams/100 ml at 75°C. Aqueous solutions are unstabile, easily oxidized on exposure to air, or other factors which affect ascorbic acid.

The pH of a sodium ascorbate solution is from 5.6 to 7.+ as compared with a pure ascorbic acid solution at pH 2.3-2.5. The more neutral characteristic of the sodium salt recommends it for high dosage oral forms where gastric sensitivity to lower pH might be undesirable. It is useful in combination with ingredients which would react unfavorably under more acid conditions. Products can be buffered to a suitable pH by combining sodium ascorbate and ascorbic acid together.

Commercial forms of sodium ascorbate are not recommended for preparation of parenteral solutions. It is more satisfactory to prepare suitably buffered solutions of Roche ampul type ascorbic acid, using sodium bicarbonate according to the special Roche method described in our technical brochure, "Notes on Vitamin B_1 and Vitamin C Parenteral Solutions."

Sodium ascorbate is of value as an antioxidant for use in comminuted meats and in curing pickles for hams, bacon, and corned beef. Because it is the salt of ascorbic acid (vitamin C), a substance naturally occurring in meats and identified in the U.S. Pharmacopeia, it may be preferred to antioxidants in the "chemical additive" class.

ERYTHORBIC ACID and SODIUM ERYTHORBATE

For Antioxidant Use Only — No Nutritional Claim Can Be Made — Literature on Request

**Sodium erythorbate Roche (formerly sodium d-isoascorbate), antioxidant with virtually no vitamin C activity. A white, free-flowing crystalline material. Slightly less soluble than ascorbic compounds. When replacing ascorbic acid, 23% more should be used to obtain equal antioxidant activity and 8% more when replacing sodium ascorbate. These differences are due to the presence of both water of crystallization and sodium which are inactive.

Erythorbic acid Roche (formerly d-isoascorbic acid) — antioxidant. Similar to sodium erythorbate described above. Useful where acid reaction or absence of sodium is desirable. For equivalent antioxidant activity use 23% less than with sodium erythorbate, or the same amount as with ascorbic acid (vitamin C).

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Chemical Firms Doing Gov't Work Study New Regulations

Chemical firms performing work for the government under the Walsh-Healey public contracts law are boning up on federal standards covering safety and health. Regulations applying safety and health rules for all work done on federal supply contracts have just been issued by Secretary of Labor James P. Mitchell.

The regulations replace the present system of following state law in the matter of safety and health requirements, which has caused uncertainties. Mr. Mitchell said that the federal standards represent what industrial experience has shown to be reasonable minimum standards for safe and healthy working conditions.

Failure to comply with the new regulations will be considered a violation of the Walsh-Healey provisions barring unsanitary and hazardous working conditions, which could lead to cancellation of the contract, and place the responsible party on the government's blacklist of contractors.

Olin Elevates Lopker

Edwin B. Lopker has been appointed to the newly created position of vice-president of engineering for the chemicals division of Olin Mathieson Chemical Corporation. Mr. Lopker, who has been vice-president and manager of operations for the company's Blockson unit at Joliet, Ill., will now move to Baltimore, Md., headquarters. He jointed Blockson in 1949.

GSA Buys Up DDT

—Continued from page 7

until June 30. Prices were all quoted on an f.a.s. basis.

The successful bidders were:

International division of Allied Chemical Corporation, New York—3.6 million pounds for $793,800, at prices ranging from 21.9 cents a pound to 22.1 cents a pound.

Lebanon Chemical Corporation, Lebanon, Pa.—4 million pounds for $884,000, of which 2 million pounds was priced at 22 cents a pound and 2 million pounds at 22.2 cents a pound.

Montrose Chemical Corporation, Newark, N. J.—8,150,000 pounds for $1,764,875, of which 5,450,000 pounds went for 21.37 cents a pound and 2.7 million pounds for 22.23 cents a pound.

Olin Mathieson Chemical Corporation, Baltimore, Md.—10,250,000 pounds for $2,155,050, of which 7 million pounds was at the low price of 20.99 cents a pound, while the remaining 3,250,000 pounds went for 21.10 cents a pound.

Dihydrocodeinone Drugs

—Continued from page 5

legend "Class B—in stock Jan. 1, 1961," thus indicating its proper classification and explaining the absence of a tax stamp.

In many instances manufacturers of exempted dihydrocodeinone preparations have been registered as Class V (M) producers and wholesalers and retailers have registered as Class V (D) dealers.

These Class V registrations will no longer cover this preparation and manufacturers will have to register in Class I, wholesalers in Class II and retailers in Class III.

A Class V manufacturer who does not register in Class I for the manufacturer of taxable narcotics may either sell his entire stock in one lot to some other manufacturer who is registered in Class I or arrange for destruction of the stock or its surrender to the district narcotics supervisors.

Class V dealers who do not register in Class I or II can return their stocks to the manufacturer, if he is registered in Class I, sell the stocks to another registered dealer, or arrange with the district supervisor for their surrender or destruction.

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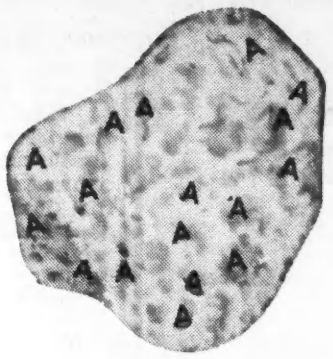
NEPERA—PIONEERS IN PYRIDINE CHEMISTRY

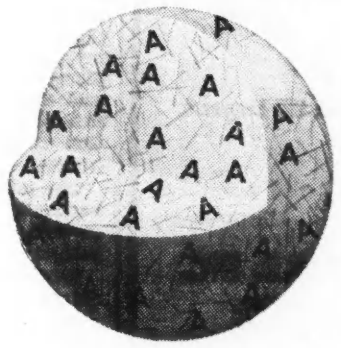
NEPERA

Vitamin A soaked in spongy material



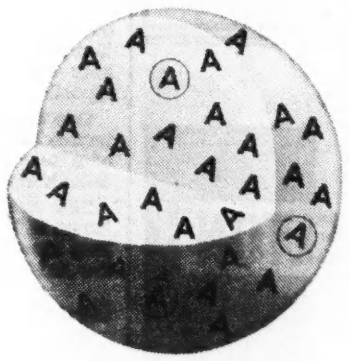
leaks out

Vitamin A dissolved in hot wax



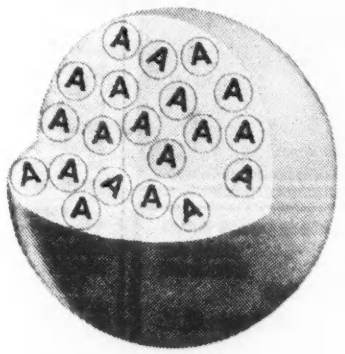
diffuses out between wax crystals

Vitamin A dissolved in gumlike substance



some dissolves, some doesn't

Vitamin A in edible gelatin spheres



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GREETINGS to Each and All:

May the New Year see your brightest hopes fulfilled and your most cherished wishes for happiness and contentment realized.

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Essential Oils, Aromatics

Java-type citronella, in response to the Formosan government's announcement that 1961's export quota will be low, has risen 7 cents per pound. Two items that usually move one way or another, remained at their previous levels. Both vanilla beans and pepper stayed at last week's listings. The annual meeting of the Essential Oil Association will be held Friday (January 6) at the Savoy-Hilton Hotel, New York. Main event of the evening will be the annual report to be delivered by the president Mr. R. E. Horsey of Givaudan-Delawanna, Inc. Cocktails being served at 6 p.m. with dinner following.

From the Chemical and Rubber Report, we learn that Somalia produces more than 60 percent of the world's supply of frankincense (olibanum) and myrrh from the trees in the mountains along the northern coast. (Chemical and Rubber is published by the Business and Defense Services Administration of the US Department of Commerce.

The most important varieties of olibanum are freereana, ghandajana and carteric, known commercially as maidi, beio, and medi, respectively.

Estimated 1959 production was 10,000 quintals. One quintal equals 220 pounds.

Somalia myrrh is from Commiphora molmol Engler, family Burseraceae, known in Somalia as didin.

Estimated 1959 production was 3,000 quintals. If demand warranted, production of olibanum and myrrh could probably be increased, according to the report.

One of the soap manufacturing companies has announced the manufacture of a new type of shampoo which contains a lemon additive.

The company has incorporated some lemon in the shampoo itself since it has long been known that lemon brings out the hair's natural highlights.

Price Trends

Advanced

Citronella, Java-type, 7c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
144.90	144.89	145.50	146.14

For Current Prices see page 8

Essential Oils

Bay—West Indian material is reported to be quite firm, with some dealers charging upwards of $3.50 per pound for their material.

Citronella—From its previous low, $1.08 per pound, Formosan material has risen to $1.15 per pound.

The market has gotten firmer ever since the Formosan government announced a reduction in the export quota for 1961. Next years quota will be 4 million pounds as opposed to 1960's quota of 4.5 million pounds.

Lemongrass—News from source is that the market remains firm with prices maintaining the status quo. Spot prices also remain unchanged.

The following report, on the soil most suitable for the cultivation of lemongrass in Orissa, is excerpted from an article written by S. V. Appa Rao Patnaik, a pharmacist at the government headquarters hospital in Koraput, Orissa, India.

Lemongrass is usually cultivated in Kerala on barren and infertile soils along the hill slopes. It grows under a variety of soil conditions.

Fertile soils generally are not useful for cultivation of lemongrass. A well-drained sandy loam is probably the best type of soil for its cultivation. Plants from sandy or coarse gravelly soil yield more oil of higher citral content than plants from fertile soil.

The rainfall in Koraput district ranges from sixty inches to eighty inches a year which is comparatively higher than that of other districts in Orrissa.

The following is the data of high rainfall for the last five years in Karaput.

In 1955 it was ninety inches; 1956, seventy inches; 1957, seventy inches; 1958, eighty-five inches and 1959, ninety-seven inches, according to Mr. Patnaik's report.

Peppermint—Prices remain at their previous level, according to reports from essential oil dealers here in the New York area.

The following figures about yield per acre are from the US Department of Agriculture.

In Indiana, it is 35 pounds per acre; in Michigan, 23 pounds per acre; in Wisconsin, 40 pounds per acre; in Washington, 75 pounds per acre, and in Oregon, 57 pounds per acre.

Spearmint—Little change in spot market conditions has been noted in recent weeks.

From the US Department of Agriculture, we have the following figures on spearmint production.

Only three states grow spearmint on a commercial scale. They are Washington, Michigan and Indiana.

This year Washington harvested 9,500 acres of plant material whereas its 10-year average is only 2,210 acres. Michigan harvested only 4,800 acres as compared with its 10-year average, 5,770, and Indiana harvested 4,500 acres as compared with its average of 7,900 acres.

Yield Per Acre

	1960	*Average*
Washington	83	91
Michigan	28	29
Indiana	36	34

The Department of Agriculture estimates that the value of the whole spearmint crop in 1960 was $4,225,000 as compared with the 1959 value, $3,073,000 and the average, $2,549,000.

The price growers received averaged $3.09 per pound in 1960 as compared with $4.05 in 1959 and $4.38 for the average period.

In 1960, 1,084,000 pounds of oil were produced from 18,800 acres. In 1959, 759,000 pounds of oil were produced from 13,200 acres. In the 10-year average period, 586,000 pounds of oil were produced from 15,220 acres.

As far as yield per acre are concerned, this year it was 58 pounds which is the same as in 1959. The 10-year average, however, was only 39 pounds.

Seeds and Spices

Allspice—Jamaican material has declined in price from 70c. per pound to 69c. per pound.

Pepper—Malabar black, Lampong black and Muntok white all remained at their previous prices. Malabar black remained at 44c. per pound, Lampong black remained at 44c. per pound and Muntok white remained at 74c. per pound.

Continuing with the report on world pepper production, with figures from the Foreign Agriculture Circular, published by the US Department of Agriculture, we have, this week, the following information about exports from Sarawak.

Sarawak exports during 1959 totaled 18.7 million pounds, compared with 21.8 million pounds in 1958. White pepper made up 14.7 million pounds of the 1959 total.

The best customer for Sarawak's pepper continues to be Singapore, even though ways and means of bypassing this port are being studied.

Singapore took 81 percent of Sarawak's pepper during 1959; 70 percent during 1958, and 82 percent during 1957.

Exports to the Soviet Union while below the 1957 and 1958 level, were still substantial.

Indian exports during 1960 are expected to be greater than last year, owing to the relatively strong world demand, and to a somewhat larger crop.

Vanilla Beans—Market for spot goods remains the same as it has been since mid-December. The general condition of the market is said to be that of firmness.

Bourbon material remains at $8 per pound, Mexican cut material remains at $8 per pound and Mexican whole material remains at $9 per pound.

Aromatic Chemicals

Eugenol—Prices remain at their previously quoted levels. The USP grade remains at $1.80 per pound and the technical grade remains at $1.30 per pound.

Prices declined recently because of the depressed condition of the clove markets.

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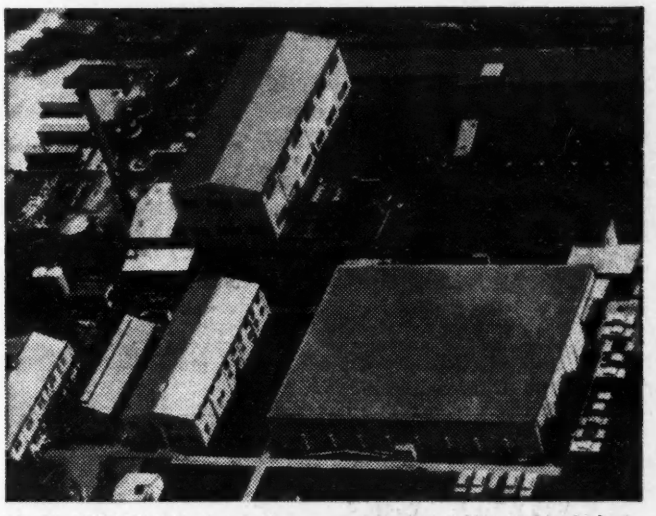

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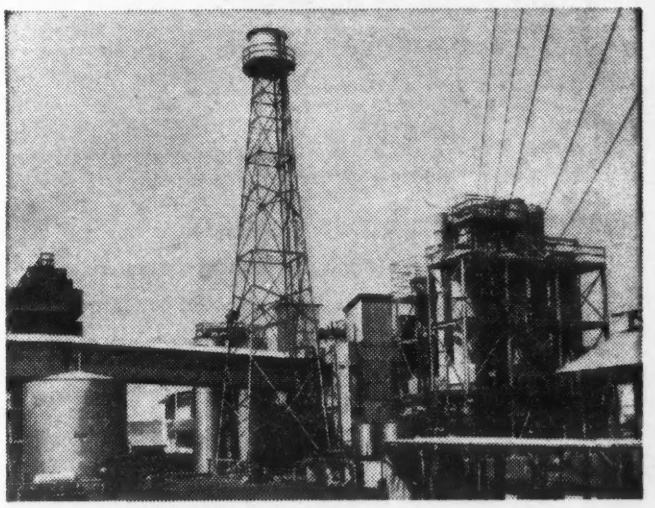

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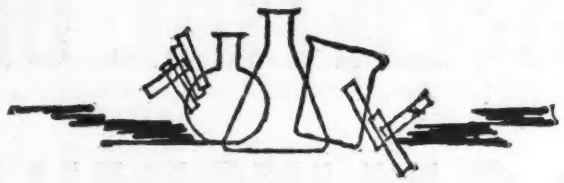

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US Company to Explore In Negev for Phosphates

A US concern—American-Israel Phosphate Company of New York—has been organized to prospect and explore the phosphate mineral deposits in the Negev, the southern part of Israel.

According to a registration statement filed with Securities & Exchange Commission last week, the concern wishes to offer some 125,000 shares of common stock for public sale to finance the project.

The company has a contract with the Government of Israel and expects to carry on its business in the middle eastern country through a wholly-owned subsidiary, the American-Israel Phosphate Company, Ltd.

The US corporation has 179,500 shares of common stock outstanding, of which Albumina Supply Company of New York owns 123,000 shares and management officials as a group own 45,500 shares. Oscar L. Chapman, Secretary of the Interior under President Truman, is listed as board chairman and Walter B. Frank is president of the firm.

CSC Good Customer

—Continued from page 4

Gas Field in northern Louisiana to CSC's Sterlington, La., plant, where anhydrous ammonia, methanol and a wide range of derivatives for industrial and agricultural use are made.

The increased flow of natural gas also will be used by CSC's thermatomic carbon division plant at Sterlington to manufacture thermal carbon blacks for the rubber and plastics industries.

Mr. Wheeler stated that every one of the forty-eight wells which Louisiana Gas Production has drilled during the past two years is a satisfactory producer. The subsidiary's performance, he said, is due to the introduction of drilling methods which are new to the thirty-year-old Monroe field.

The use of sonic and induction electric logs and sandfracing technics is resulting in a daily output from new CSC wells which has not been seen in the area for many years.

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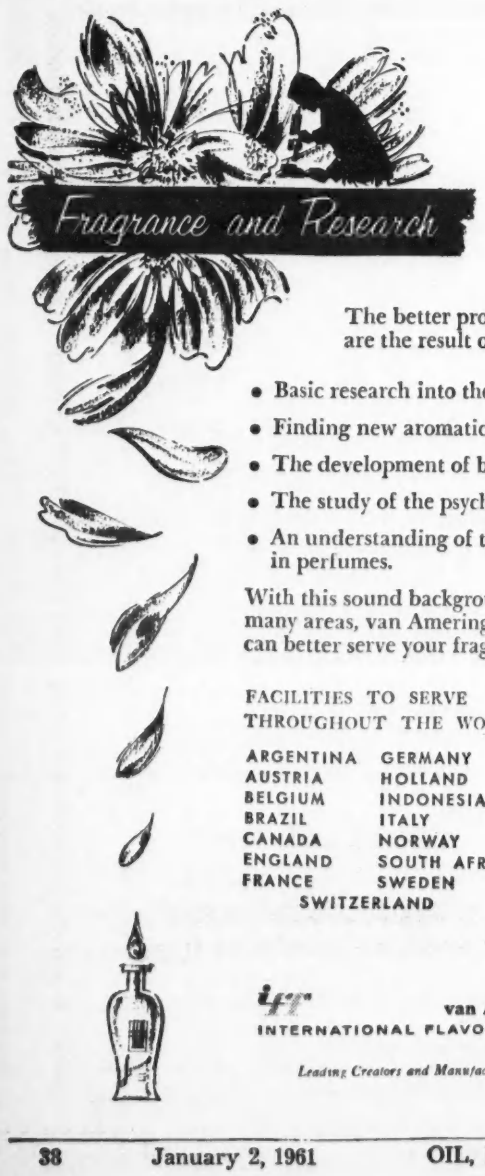

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Coatings Materials

Along with the higher listings that are going into effect this week on the plasticizers and prime pigments, several grades of the synthetic resins are also slated for price boosts. According to the schedule announced by one producer, all grades of the oil-modified alkyds will be raised one-half to one-quarter cent per pound, along with one specialty resin. The oil-modified alkyds price boost takes effect on January 1 and will boost listings for all of the alkyds one-half cent per pound with the exception of eight grades. The latter will be increased one-quarter cent per pound.

As announced in previous weeks, the listings for the plasticizers are up one-half cent per pound to three-quarter cent per pound over the pre-January 1 prices. The one-half cent per pound price boost hit all of the phthalate esters with the exception of dimethyl and dibutyl. Those esters are up three-quarter cents per pound.

The increases on the phthalate esters follows the similar increases that will take effect this week on phthalic anhydride and naphthalene. The supplies of all three materials continue to be tight.

Pigments are up an average of three to five cents as a result of the annual price review taken at the end of each year. Several of the blues, greens and reds are being quoted at listings that are three to five cents per pound higher with some price boosts ranging up to 10 cents per pound.

Price Trends

Advanced
None
Reduced
None
Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
103.14	103.15	103.14	103.03

For Current Prices see page 8

January 1 Price Advances

Alkali blues, flushed and dispersed, 3c. per lb.
Calcium lithol toners, 5c. per lb.
Dibutyl phthalate, ½c. per lb.
Diethyl phthalate, ¾c. per lb.
Diisobutyl phthalate, ½c. per lb.
Dimethyl phthalate, ¾c. per lb.
Dimethyloxyethyl phthalate, ½c. per lb.
Dioctyl isophthalate, ½c. per lb.
Green B pigment, 5c. per lb.
Lake Red C, 5c. per lb.
Lithol maroons, 5c. per lb.
Methyl violet (PMA), 5c. per lb.

Spot coatings markets continued quiet for the holiday period. Casein, shellac and copal and dammar gums were reported to be unchanged on their market situation. Casein listings for French, Argentine and Polish continued to be quoted in the same ranges as in previous weeks.

Prime Pigments

Blue Pigments—A three-cent per pound increase on all shades of the iron blues (including the alkali resisting types) went into effect on January 1, according to the previously announced schedules of several producers.

Chrome Colors—Output of chrome oxide green during October was placed at 405 short tons, or 185 short tons less than the previous month and 200 short tons less than the same month last year. September's production was reported at 590 short tons, with the production for 605 short tons. Stocks of chrome oxide green at the end of October was set at 722 short tons, up 67 short tons from the beginning of the month.

Chrome yellow and orange output in October also was lower than the level reported for the previous month. October's output was reported at 1,579 short tons, compared to the 1,736 produced in September. Last year, October's production was estimated at 3,060 short tons. Stocks of chrome yellow and orange, held at producers' plants declined from 2,728 short tons to 2,649 short tons during the month.

Molybdate chrome orange production at 549 short tons in October was 66 short tons greater than the previous month and 36 short tons less than October 1959. Stocks of molybdate chrome orange increased from 612 short tons at the beginning of October to 641 at the close of the month.

Greens—Pigments Green B is at a newly quoted price of $1.55 per pound, up 5c. from the pre-January 1 listings. Pigment Green B is the only green pigment affected by the recently announced listings.

Maroons — Several grades of the maroons have been increased an average of 5c. per pound with one pigment coming in for a 10c. per pound price boost. BON maroon are at $2 per pound. The softened type BON manganese are at $2.35 per pound, also up 5c. per pound. One other maroon color has been raised at $2.35, but in this case the boost was 10c. per pound.

Mineral Orange—Both dimitraniline and orthonitraniline oranges are 5c. and 8c., per pound higher as the new pigment listings went into effect on January 1. Dinitraniline is at $1.61 per pound, and ortho—at $1.50.

Reds—All shades of the calcium lithol toners C.P. are up 5c. per pound as of January 1. The new price for calcium lithol toner is $1.03 per pound, with the para toners newly quoted at $1.26, while the reduced para toners are at 31c. per pound.

Yellows—Regular benzidine toners are at $2.30 per pound, up 10c. per pound. The higher listing that went into effect on January 1 boosted prices on the regular toners as well as the strong stable, and stable benzidine yellow toners.

Violet Methyl Toners—The 15c. per pound boost on January 1 makes the PMA violet methyl toners $2.95 per pound. The old price had been $2.80 per pound.

Synthetic Resins

While firming tendencies were in evidence for most coatings materials, polystyrene listings lost some ground. In addition, some confusion exists due to the split schedules now in effect throughout the industry. One producer has adopted a blanket price of 19c. per pound, for any quantity of material ordered. Other producers are going with a lower price of 18¼c. on large quantities, with slightly higher prices for less than large shipments. In either case, both prices are lower than the pre-January 1 price of 21½c.

The following figures show production in pounds for September and list August figures for comparison, as reported by the Tariff Commission:

Production

	*September	**October
Phenolic and other tar acid resins:		
Molding resins	15,718,142	16,406,949
Laminating resins	6,773,935	5,473,682
Protective coating resins, modified, unmodified, except by rosin	1,933,941	1,582,437
Urea and melamine resins:		
Protective coating resins, straight modified	2,779,779	3,437,558
Styrene resins:		
Protective coating resins, straight modified	5,319,772	5,491,501
Vinyl resins:		
Total all types	97,790,667	104,584,095
Phthalic anhydride types, unmodified	20,966,027	19,855,791
Modified with tar acids, rosin and/or other material except styrene	6,457,567	6,730,759
Polybasic acid types except phthalic:		
Unmodified	425,597	820,461
Modified with tar acids, rosin and/or other material except styrene	636,120	548,159
Rosin modification for protective coatings:		
Rosin, rosin esters, unmodified (ester gums, esterified with glycerol)	1,163,811	799,904
Esterified with other alcohols, pentaerythritol, glycols, etc.	908,588	690,297
Modifications with phenolic and other tar acid resins	2,192,081	2,112,203
Modifications with maleic and fumaric acids	2,795,705	2,203,064
All other modifications	4,093,428	4,952,268
Coumarone-indene and petroleum polymer resins	20,066,079	19,170,694
Miscellaneous plastics and resin materials	25,371,286	26,886,058

* Revised. ** Partly estimated.

Lacquer Materials

Plasticizers—The new schedules that took effect on January 1 make the tank-car price for dimethyl 27¼c. per pound, dibutyl phthalate, 29c. per pound, diethyl phthalate 27¼c. per pound, diisobutyl phthalate, 27½c. per pound, diocetyl phthalate, 26½c. per pound, dimethyloxyethyl phthalate, 44c. per pound and diocetyl iso phthalate, 28c. per pound. Also scheduled for one-half cent per pound increases are the trade name plasticizers.

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Benzene Hexachloride	Chelating Agents
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Agricultural Chemicals

The discovery of what will prove to be the nation's richest potash deposits at Moab, Utah, may prove to be significant from several points of view. Core drilling at the site is reported to indicate sizable quantities of potash, greatly enhancing the producers market position who holds property rights at the site. The significance of the deposits would alone be supported by the rising sales curve for potash both here and abroad. The desire to meet the boom in potash has sent producers hunting for new deposits.

Adding to the motivation for new deposits is the petering out of high grade ore at the presently mined sites. Carlsbad, New Mexico, which in 1959 supplied 92 percent of the domestic potash output, has experienced a reduction of about 7 percent in the percentage of K_2O ore content. A recent Bureau of Mines survey revealed that in 1939 the percentage of K_2O content was about 25 percent. Since then the percentage has dropped to about 18 percent. In obtaining the necessary K_2O, producers were forced to process 14 percent more potash, thus bringing the total mined potash to a record high last year.

The Canadian potash deposits, while probably greater than the deposits discovered at Moab, is considered to be equal in ore content. The cost of mining the Esterhazy site will probably exceed that encountered by domestic producers due to the fact that the domestic producers will not have the water problem to contend with as in the case at Esterhazy. The producer that presently holds property rights estimates that mining operations will begin during the later months of 1962 or during the first few months of 1963.

A DDT purchase of about 26 million pounds was made last week by the General Services Administration. The 75 percent wettable material price was set at an average of 21.81 cents a pound for a total of cost of $5,597,725, and is slated for use in the antimalarial program of the World Health Organization.

Contracts were awarded to four producers for the entire amount on the bid opened by GSA on December 13. The range of process were from a low of 20.99 cents to a high of 22.23 cents. Prices were all quoted on a f.a.s. basis with GSA retaining the option of increasing the amount to be purchased by 15 percent until June 15.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
110.56	109.41	111.26	110.31

For Current Prices see page 8

January 1 Price Advances

Ammonium nitrate, $3 per ton
Nitrogen solutions, manufacturing type, $6 per ton
Nitrogenous sewage sludge, 15c. per unit NH_3
Potassium muriate, 2½c. per unit K_2O
Potassium sulfate, 3c. per unit K_2O

Animal and Plant Foods

Ammonia—Output of synthetic anhydrous ammonia during October hit 387,282 short tons, reports the Census Bureau. This was slightly above the prevoius month's total of 364,850 short tons. Last year, October's production was reported at 390,478 short tons. Stocks of synthetic ammonia at the end of October was placed at 153,624 short tons, an increase of 36,509 short tons over the level of stocks held at producing plants at the beginning of the month.

Byproduct ammonia output (NH_3 content) during October was reported at 1,220 short tons, as compared to 1,023 short tons turned out in September. Stocks at producing plants held roughtly to the same levels for the months October-September. At the end of October, stocks were reported at 785 short tons, as against 722 at the end of September.

Ammonium Nitrate — Production of original solution ammonium nitrate during October totaled 273,096 short tons, of which 250,684 short tons went into fertilizer grade material. Other grades accounted for 22,412 tons of ammonium nitrate output during October.

During September, total nitrate production was placed at 259,279 short tons. That month fertilizer grade output claimed 233,440 short tons, while other grades took the remaining 25,839 short tons.

Last year, October's output of ammonium nitrate was reparted at 248,951 short tons with fertilizer grade at 231,464 short tons. Stocks on hand at the end of October was reported at 151,837 short tons for fertilizer grade and total stocks at 167,707 short tons.

Ammonium Sulfate — Synthetic ammonium sulfate production, as reported by the Census Bureau, totaled 86,236 short tons in October. For the previous month, production was placed at 70,961 short tons, while for October of last year, output was reported at 93,451 short tons.

Byproduct ammonium sulfate production during October was estimated at 42,572 short tons, an increase of about 2,000 short tons from the previous month. Stocks on hand at producers plants went from 138,186 at the beginning of the month to 142,992 short tons at the end of the month.

Stocks of synthetic sulfate were reported at 117,179 short tons at the end of October, an increase of about 17,000 tons during the month.

Animal Proteins—Fishmeal and scrap quotations are reported to be holding in the same range as in previous weeks with the general market situation on the quiet side. Recent colder weather along the East coast brought fishing operations off North Carolina to a close but has not as yet affected the supply-demand relationship for the market.

Nitrogen Solutions—Both output and the level of stocks at producers' plants in October held to almost the same levels, reports the Bureau of Mines. October production hit 60,280 short tons, just 1,010 short tons over the output for the corresponding month last year. Stocks of nitrogen solutions were reported at 60,286 short tons at the end of October. For September, stocks were estimated at 50,976 short tons.

Potash—Shaft sinking at the Esterhazy potash mine site is proceeding satisfactorily, according to reports from one of the producers at the site. In a report to the company's shareholders, shaft sinkers were more than half-way through the 200 ft. water-bearing Blairmore sands, frozen at about minus 50 degrees F. after a year of freezing.

A cast iron lining, designed to insure maximum safety and uninterrupted production after the mine is completed, was being installed in five foot rings, 11 segments to a ring, simultaneously with the sinking.

Once through the Blairmore level, at about the 1,450 foot level, the shaft will be sunk through the limestone strata to the potash deposits located at about the 3,150 foot level. The mine is expected to go into production in 1961-62.

Urea—October imports of urea were reported by Customs at 4,531 tons and were valued at $402,599. Breakdown of shipments was: Canada, 2,014 tons ($193,620); United Kingdom, 286 tons ($24,764); Netherlands, 261 tons ($19,420); Belgium, 903 tons ($80,057); West Germany, 642 tons ($49,332); Switzerland, 86 tons ($8,460); and Japan, 339 tons valued at $26,946.

Pesticides Output

Following are production statistics reported by the Tariff Commission representing the number of pounds of certain pesticides produced during October, 1960, with September's production figures supplied for comparison:

	October 1960	September 1960
	——Pounds——	
DDT	14,485,960	13,749,893
2,4-D*	*2,039,697	*2,155,744
Ester & Salts	*1,513,259	*1,614,062
Acid equivalent	*1,024,184	*1,183,719
BHC	1,714,310	1,607,984
Gamma isomer	612,700	534,719
2,4,5-T	—	—

* Partly estimated.

Oils, Fats and Waxes

Among edible oils, soybean was higher, reflecting the strength of beans and pending export business with Spain. Cottonseed oil was quiet, but steady. Corn oil was scarce and higher while peanut oil was off ½ cent because of slow demand and increased stocks. Crude coconut oil was quiet but remained unchanged and steady. Copra shipments were quiet and nominal. Olive oil was firm because of higher cost of shipments from Spain.

Tallow and greases were steady and unchanged. Offerings continued light and were closely held. Demand was moderate with trading at prevailing prices.

There was little doing in industrial oils. Oiticica oil was dropped another ½ cent per pound to stimulate business. Demand was slow and competition keen. Light trading took place in tung oil for prompt and later delivery at unchanged prices. Brazilian castor oil was inactive and fractionally lower. Tall oil continued firm and advances of ⅛ to ¼ cent per pound became effective January 2.

Soybean meal closed steadier, regaining early loss. Cottonseed meal was unchanged. Scarcity of linseed meal kept extracted meal firm, while old process expeller was advanced $1 per ton.

Price Trends

Advanced

Corn oil, crude, ¼c. per lb.
Refd., ¼c. per lb.
Linseed meal, old proc., $1 per ton.
Soybean oil, crude, ⅛c. per lb.
Refd., ⅛c. per lb.
Tall oil, crude, ⅛c. to ¼c. per lb.

Reduced

Castor oil, Braz., ¼c. per lb.
Oiticica oil, ½c. per lb.
Peanut oil, crude, ½c. per lb.
Refd., ½c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
105.09	104.93	105.07	123.47

For Current Prices see page 8

Vegetable Oils

Castor—Brazilian castor oil was quiet and available at 18c. per pound, tankcars, New York for prompt delivery. Domestic grades were inactive.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:

	Pounds	
	Castor Beans	Castor Oil
Last week	.....	1,326,000
Previous week	.....	1,800,000
Corresponding week, 1960	.....	2486,000
Total this year	.....	1,326,000
Corresponding period, 1960.	.....	2,486,000

Coconut—Crude was steady and held at 11¼c. per pound, tankcars, fo.o.b. Pacific coast, prompt shipment and was quoted nominally at 13⅜c., tankcars, New York basis.

Corn—Crude was firmer and sold at 15½c. tankcars, f.o.b. mills, prompt delivery. Refined was higher at 19.23c., tankcars, New York basis.

Cottonseed—Futures remained steady, scoring moderate gains on the New York Produce Exchange last week. Trading was active. Cash oil was quiet but steady. Refined salad oil was unchanged at 13⅞c. per pound, tankcars, New York, prompt delivery. Crude oil remained firm, ranging from 10¼c. to 10⅜c. per pound, tankcars, mills, in the southeast, as to location; 10⅛c., Valley; 10c. Lubbock and 10⅛c., Waco.

Consumption of refined cottonseed oil in November was indicated at 2,776 tankcars, against 2,322 in October and 2,514, November 1959. Visible supply at end of November was estimated at 18,951 tankcars compared with 20,021 a year ago.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, December 30, follow:

	Sales	High	Low	Close
		Cents per Pound		
Jan.	38	12.23	12.17	12.20 Bid
March	218	12.45	12.27	12.35S
May	487	12.55	12.30	12.48S
July	180	12.59	12.33	12.51S
Sept.	18	12.33	12.18	12.33S
Oct.	22	12.21	12.09	12.22@12.25

Total sales and switches, 963 contracts.

Oiticica—Prices were further reduced ½c. because of quiet demand and adequate supplies. Tankcars were lower at 12¾c. per pound, New York, prompt delivery. Durms declined to 14¼c. to 14¾c. per pound, spot, as to quantity.

Olive—Business was quiet locally but the market remained firm with the strength of primary markets. Spanish oil was held at $53 to $54 per 100 kilos, drums, f.o.b. ports, prompt shipment. Tunisian oil was nominal at $57 c. and f. New York, same basis. Stocks on spot were held at $2.30 to $2.40 per gallon, drums, duty paid, as to quantity.

Peanut—Crude was weaker and sold at 12¾c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined was lower at 16c., tankcars, New York basis.

Soybean—Crude was firmer up ⅛c. reflecting pending export sales of more than 110,000 tons to Spain. Tankcars were held at 10c. per pound, f.o.b. Decatur, unrestricted for January delivery. Refined salad was raised to 12.20c., tankcars, New York prompt delivery.

Disappearance of crude soybean oil in November was placed at 5,535 tankcars compared with 5,477 in October and 5,025, November last year. Visible supply at end of November was estimated at 26,942 tankcars against 23,492 a year ago.

Tall—Higher prices for crude became effective January 2 ranging from 3c. to 3½c. per pound, tankcars, f.o.b. works, depending upon seller, buyer and quantity. Market was strong because of smaller stocks and active consuming demand. Refined grades also were firm and unchanged.

Tung—Imported oil was sold on the basis of 22c. to 22¼c. per pound, tankcars, New York, prompt delivery, as to seller. Domestic oil was nominal at 22c., tankcars, f.o.b. mills. The government last week sold 1,500,000 pounds of tung oil at 16.215c. per pound, f.o.b. bulk, Marrero, La., for export. Bids were received for 4,088,000 pounds.

Fats and Greases

Greases—Yellow grease was in fair demand and steady at 5⅛c. to 5¼c. per pound, tankcars delivered. Choice white was maintained at 8½c. to 8⅝c., same basis.

Lard—Cash lard was quiet and nominal at 10.20c. per pound, drums, Chicago.

Tallow—Consumer interest was fair. Light offers were maintained at unchanged quotations. Bleachable fancy was quoted at 6⅛c. per pound, tankcars, delivered; prime, 5⅞c.; guaranteed fancy, 6⅜c. to 6½c.; special, 5⅝c. and No. 1, 5⅛c. to 5¼c. same basis. Export inquiry lagged. Guaranteed fancy was quoted at 6⅝c., bulk, f.o.b. steamer and 1c. more for drums, f.a.s.

Cake and Meal

Cottonseed Meal—Trading was slow. Market was steady. Meal 41 percent was available around $54 per ton, sacked for immediate shipment and $56 in the Valley for January; $56.50, Alabama and $57 to $60, Georgia-Carolina area.

Linseed Meal—Strong undertone persisted, influenced more by scarcity of supplies than any aggressive demand from feed manufacturers. Prices were firm. Extracted meal, 34 percent protein, was quoted $53 to $53.50 a ton for January forward. Old process was $1 higher, at $59.50, January-March.

Soybean Meal—Inquiry increased in this market as many feed manufacturers found inventories dwindling. Trading was extremely light, however, reflecting wide variation in price ideas. Spot quotations were 50c. lower on unrestricted billing, and unchanged for last half of January. Meal, 44 percent, was quoted at $53.50 a ton, unrestricted, bulk Decatur, for prompt delivery; $54 balance of January.

Waxes, Vegetable

Moderate demand was reported for most vegetable waxes last week for immediate and early January delivery. Steady tone prevailed throughout the market at unchanged quotations. Carnauba grades and crude refined beeswax were the firmest on the list.

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OPD Reports From Europe

Britain's New Drug Pricing Scheme

—*Continued from page 7*

of view in its attempt to cut the national drug bill.

Among other changes which may lead to lower prices is one which adjusts the price calculation formula for drugs not important in export sales so that the maximum prices to be charged will be lower.

And the modified scheme will now exclude from the three-year price period new products "which manifestly owe nothing to fresh research." The three-year price freedom is designed to allow the manufacturer to recover his research and development costs.

This last change is believed to be aimed directly at new drug preparations which are merely different combinations of existing developed and tested pharmaceuticals.

Profit Margins Are Attacked

In Parliament and in British medical journals, the British industry like its American counterpart has been under sustained fire for alleged excessive profit margins and advertising and promotion expenses.

One not so subtle undercurrent of this criticism in Britain has been the fact that US firms operating in the UK through subsidiaries account for a substantial part of the total British drug business and sales to the National Health Service.

The modified price scheme does not require the industry to disclose to the Ministry of Health its profit margins and advertising and promotion costs, except where such costs may be elements in the direct negotiation of prices for large-selling drugs.

Association of the British Pharmaceutical Industry, however, has volunteered to supply certain additional information on margins and costs to the ministry. The ABPI argues that this is part of its desire to "provide the ministry with acceptable evidence of the fairness and reasonableness of the prices charged for our products."

The drug industry association notes that the wholesale price index for pharmaceuticals has risen only 1.01 percent since 1954, while that for all manufactured products has risen by 12.94 percent.

The total drug industry sales to the National Health Service are still only about 7 percent of the total NHS cost, the industry adds.

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Petroleum Derivatives

Turning the corner into the new year no wild enthusiasm is evident as was the case a year ago. Most economists are predicting a rather turgid first half with improvement to be expected with the third quarter. Some petroleum derivatives continue strong, however, with demand rampant for benzene and toluene. Xylene remains active with heavier calls for the isomers than for solvent applications. Chemical uses for the aromatics predominate in general as solvent business is shading on downturns in various metal finishing industries.

In the aliphatics, such as mineral spirits, hexane and heptane, as well as the mineral oils, conditions are seasonally quiet. Waxes are routine. Some lpg's—butane, pentane, etc., are showing strength in gasoline additive applications.

Oil demand in the first half of 1961 will be static, while the second half will experience the majority of the year's gains.

That's the prediction of the Bureau of Mines in its 1961 forecast of US supply and demand for all oils.

Total demand for the first half is expected to increase about 0.7 percent over the same period of 1960, while the gain in the second half should be about 2.6 percent.

The momentum in the second half will be based on an increase in general business activity in the third quarter, according to the Bureau forecast.

In detail—domestic demand is predicted to be 9,859,000 bbls. daily, an increase of 1.8 percent for the year. Total demand, however, is to gain only 1.7 percent because of a 4.4 percent drop forecast for exports. Domestic demand in 1960 gained 2.5 percent.

Crude oil output for 1961 is put at 2.7 percent over 1960, or 9,983,000 bbls. daily. Domestic production will supply 81.9 percent of crude compared with 81.4 percent in 1960.

Crude runs to stills of 8,204,000 bbls. daily and a 71,000 bbl. daily reduction in stocks of finished products will meet the forecast, says the Bureau.

Price Trends

Advanced
None

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Dec. 31 1959
103.74	103.74	103.74	103.04

For Current Prices see page 8

Aromatic Solvents

Benzene—Petroleum processors in October turned out their heaviest amount of material for the year.

The 28 million gallons of benzene from petroleum sources tops the previous hign of March when 27.5 million gallons were turned out.

Total output for the month from all sources was 35,375,717 gallons, well behind amounts produced in April, May and June of this year which ranged from 38 to 42 million gallons.

Broken down by source, benzene production in October was:

From petroleum sources—28,115,338 gallons, or 75.1 percent of the month's total, some 1.6 million gallons higher than September.

From cokeoven sources—8,610,058 gallons, or 23 percent of the month's total, some 500,000 gallons ahead of September.

From tar distillers—650,321 gallons, or 1.9 percent of the total, some 100,000 gallons below September.

Despite the boom in benzene production from petroleum sources, overall supply in the current market is still short of requirements.

How rapidly a supply-demand balance can be achieved is still a matter open to question although informed sources predict the second half of 1961 will see a much more favorable supply picture than experienced at anytime in the last year and a half.

Much of the expected improvement will be in the form of increased petroleum capacity. Then, too, steel rate is expected to stage a recovery in the Spring which should bring cokeoven supply of benzene to higher levels than the 8 million gallons a month recently being averaged.

Talk in the trade is that benzene from the USSR will continue to be delivered to at least one US chemical firm in 1961. Amount will be approximately 9 million gallons.

This volume does not represent a new commitment but rather the delayed completion of an old contract. It is thought in the trade that the material due in 1961 will bear a higher price tag although this has not been confirmed.

Toluene—Firm supply conditions are reported in the current market by trade sources.

Demand this year is moving at a good clip causing some tightening of the market as export and domestic calls continue heavy.

The gloomy predictions once voiced about toluene's future seem now to be outdated as new developments appear certain to ensure toluene a secure place in the industry.

"Hydeal" operations for output of desperately needed benzene are already drawing some toluene while future growth of this process will account for even more consumption.

Another area of growth is expected in the production of phenol from toluene, a process that reportedly has a major producer already lining up plant facilities.

Petroleum toluene now moves at 25c. a gallon, f.o.b., freight equalized.

Coaltar toluene at the first of the year will be 25½c. a gallon, delivered.

Toluene production in October hit 25,453,420 gallons (partly estimated), up 1.9 million gallons from September.

Petroleum sources supplied 23,050,977 gallons, up 1.6 million gallons from the previous month.

Cokeovens turned out 2,198,529 gallons, up 200,000 gallons from September.

Tar Distillers accounted for 203,914 gallons, some 54,000 gallons less than September.

Xylene—General supply conditions for xylene are reported as more than adequate.

This in the face of increased demand for the isomers which tend to reduce availability of xylene for chemical uses, particularly for solvent applications.

Turndown in industrial activity involving solvents has loosened this end of the market although fraction demand appears unaffected.

Price remains sharply competitive with a spread of 27 to 30c. a gallon reported.

Total xylene production declined to 27,119,170 gallons in October after the 27,762,899 gallons turned out the previous month.

Petroleum and tar distillers accounted for 26,517,302 gallons while cokeoven production was 601,868 gallons.

Crude Oil Stocks

Domestic and foreign crude petroleum stocks at the close of the week ended Dec. 17 were 2,369,000 bbls. lower than at the end of the preceding week.

Week ended Dec. 17—236,900,000 bbls.

Preceding week—239,269,000 bbls.

This increase comprises a decrease of 159,000 bbls. in stock of domestic crude and a decrease of 2,528,000 bbls. of foreign crude.

(Source: Bureau of Mines)

LPG's

Output of natural gas liquids continues to boom ahead of last year's figures.

In October—the most recent month for which totals are available—production was 8 percent ahead of the same month last year.

Daily average production at refineries in October was even further ahead at 10 percent above 1959 for an average of 1 million gallons daily.

Notable among the big gainers was ethane-ethylene with output increased 22 percent.

Demand for liquefied gases for fuel and chemical uses on the other hand dipped 6 percent below October of last year.

Demand for natural gasoline, however, gained 7 percent with the daily average call being 12 million gallons.

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1—Buflovak 840 sq. ft. dbl. effect, T304 SS, size #7.5-42-D.
1—Buflovak 710 sq. ft., dbl. effect, T304 SS, size #7-35-D.
1—Buflovak 700 sq. ft. single effect, T304 SS, forced circ.
1—STRUTHERS-WELLS 630 SQ. FT. SINGLE EFFECT, T316 SS, CALANDRIA TYPE.
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1—1960 SQ. FT. T316 SS, HORIZ. EXCHANGER, ASME 75# WP.
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6—SHRIVER 48" CAST IRON P. & F. FILTER PRESSES, 50 CHAMBERS.
7—DAVENPORT DEWATERING PRESSES: #1A, 2A.
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1—Tolhurst 26" susp. Rubber Imperforate Basket.
2—Fletcher 48" Suspended 316 S.S. Perforated Basket.
2—Sharples #16, 304 S.S., 3 HP motor.

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1—150 gal. 304 S.S. jacketed agitated Reactor.
3—Pfaudler 200 gal. glass lined jacketed Kettles.
1—650 gal. 304 S.S. Reactor with 100 sq. ft. Bayonet Heater.
1—Pfaudler 12" wiped film Evaporator.
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1—2,000 gal. horizontal 304 S.S. tank 5' x 12'.
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1—Oliver 6' dia. Horizontal Filter, 316 S.S.
1—Oliver 5' x 6' Steel Rotary Vacuum Precoat Filter.
1—U.S. 200 sq. ft. 304 S.S. Auto-Jet Filter.
1—Hercules 400 sq. ft. 304 SS pressure Filter.
1—Oliver 5'3"x8' Steel Rotary Vacuum, vaportite housing.
1—Feinc 5'x6' Stainless Steel Rotary Vacuum Filter.
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1—Baker Perkins 100 gal., jacketed, double arm, 30 HP.
1—Baker Perkins 50 gal. jacketed, double arm.
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1—Struthers Wells type 316 SS 2000 gal. jacketed reactors, complete with agitators and drives.

5—Pfaudler glass lined jacketed reactors, 30 to 100 gal., complete with agitators and drives.

1—Patterson 40 gal. SS reactor, 50# internal, 50# jacket.

2—Pfaudler glass lined vacuum receivers, 20 and 30 gal.

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1—Allis Chalmers stainless steel rotary dryer, 6' x 50'.

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1—Bonnet steel rotary cooler, complete with motor and drive, 8' x 50'.

1—American 42" x 120" double drum dryer with drive and motor.

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1—Raymond 2 roll high side roller mill, complete with oil journals.

1—Williams "Comet", 4 roll mill, complete.

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Sulfur Had Good Year

—Continued from page 7

was elemental sulfur mined by the Frasch hot-water process from salt dome deposits along the coast of Louisiana and Texas.

Of the balance, 725,000 tons represented elemental sulfur recovered from sour natural gas and refinery gases; 425,000 tons sulfur contained in pyrites; and 500,000 tons sulfur in various forms from other sources.

During the year, three new Frasch mines were placed in operation on the Gulf Coast. The largest new mine was Freeport's Grand Isle project, located seven miles off the shore of Louisiana in fifty feet of water. This gain in productive capacity was partially offset by the announced closing of two other mines, one in Louisiana and one in Texas.

FDA and Its Chief in the Clear: Kendall

—Continued from page 3

to Dr. Henry Welch, uncovered by the Kefauver committee earlier last year.

- That the essential functions of FDA are being performed.
- That FDA personnel are more than ordinarily dedicated to the purposes of the agency.
- That decisions have not been made in defiance of the public interest or to conform with considerations of personal gain or aggrandizement.

Secretary Flemming, when asked if he saw anything in the report or investigation that warranted any disciplinary action against Food & Drug Commissioner George L. Larrick or any other FDA employee, responded flatly: "No. I do not."

The Kendall committee recommended a re-examination of existing regulations concerning conduct of employees and also asked that the receipt of gratuities from or payment of expenses by industries be forbidden.

Mr. Flemming said that the regulations have been re-examined and changes made in the past few months. He issued a codification of the regulations which includes a section forbidding HEW employees from having any financial interest in companies subject to jurisdiction of the agency.

The committee made five other recommendations which were accepted favorably by Mr. Flemming, who issued instructions to Mr. Larrick to draw up plans putting them into effect in time for the secretary's approval by January 16. They include:

- Establishment of an office of internal inspection in FDA.
- Imposition of "reasonable" control on access of industry representatives to FDA personnel.
- Establishment of closer relationships between FDA employees and state and local health authorities and their staffs.
- Reorganization of procedures to assure FDA scientists that their views will be represented and considered in making decisions at the commissioner's level.
- Increased expenditures for distribution of FDA reports and bulletins, and encouragement of FDA scientists to attend scientific meetings and prepare scientific papers.

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Buffalo Vac. Drum Dryer 24" x 20".
Despatch Ovens Elec. Heated.
3—Devine & Stokes Vac. Shelf Dryers.
FILLERS—Powder & Liquid. Also Labelers.
FILTERS—#2 Sweetland 12 Stainless covered leaves.
Ertel 6" & 10" Disc type.
FILTER PRESSES—6" to 36" Iron & Wood.
KETTLES—Stainless Jack. 20 to 500 gals.
Dopp 350 gal. Cast Iron Jack. Vacuum.
Devine Impreg. Units 30" & 36" dia.
Steel Alum & Copper 5 to 2,000 gals.
MILLS—Raymond #00 Pulverizer 30 HP complete. Also #0000.
Mikro Pulverizer #4, 2S1, 2TH, ISH.
Hammer Mills & Pulverizers 3 to 50 HP.
Williams #3 & #2XX Hammer Mills.
Taylor-Stiles 7½ HP Cutter.
Rotary Cutters 1 HP & up.
Sprt.-Wald. Stainless Spike Crusher.
Pebble, Jar & Ball Mills. Lab to 6' x 8'.
3 Roll, 9" x 24", 12" x 30", 16" x 40".
Lehmann 4 Roll W. C. 12" x 36" Steel
MIXERS—Baker Perkins 100 gal. Jack.
B. P. 15 HP—Masticator Mixer.
Day Imperial 75 & 150 gal.
Change Can Mixers 8, 15, 40, 80 gal.
Day Jumbo 700 gal. horiz. Mixer.
Sprout-Waldron 10,000# horiz. Spiral Mixer.
Blystone 3000# horiz. spiral Mixer.
Day 1000# horiz. Dry ribbon Mixer.
Dry Spiral Mixers 50 to 10,000#.
Lancaster 6' dia. 25 HP & #1, 3 HP.
PUMPS—Vacuum 10 to 500 CFM.
Gould 75 HP Centrifugal 250 PSI.
SIFTERS—Day, Robinson Rotex type.
SOAP MACHINERY—Toilet, Laundry, etc.
TABLET MACHINES—Colton 4½ T.
Stokes R single punch & DR3 rotary.
TANKS—Stainless, GL., Lined, Steel.
MISC. Boilers Gas & Oil. Conveyors.
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Conical Dry Mixer 192 cu. ft. vol.; 125 cu. ft. opr. vol., with 15 H.P. Unibrake Motor.
4—Werner & Pfleiderer 200 gal. jktd., sigma blade Shredders.
1—Ball & Jewell #2 Cutter.
4—Link-Belt Vibrating Screens 4' x 8'.
1—Jeffrey Vibrating Conveyor.
1—30" Sperry Filter closed del., 3-eye, 39-plates, 40-frames.
1—42" Sperry Filter 40-plates, 41-frames, hyd. closing, open del.
1—International Ball Mill, porcelain lined, 48" x 60", 15 H.P. Unibrake Motor, 2-drums balls. Like new.
1—Schutz-O'Neill Pulverizer 22", Style D.
1—Abbe Pebble Mill 5' x 22'.
1—Sparkler Filter 33-S-28, with Scavenger Plate, steam jacketed.
1—2 qt. Sigma Blade S.S. Mixer.
1—250 gal. S.S. Kettle, nickel jacket, 100#.
1—Patterson Steam Jkt. Ball Mill 42" x 36" dia.
1—430 S.S. Tank 3000 gal. vert. ⅜ plate, with 2 pc. cover.
2—Vacuum Pumps, Gardner-Denver, 5" bore 4" stroke, with 7-½ H.P. motors.
1—#316 S.S. Reactor 265 gal. jkt.
2—Twin Screw Mixers 120 gal. jkt.
2—Aetna Water Stills 20 gph, new.
Large stock of new and used H.P. Boilers, Tanks, Pumps, Heat Exchangers, Freon Compressors, Stainless Steel & Brass Valves. Advise us as to your requirements.
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Link-Belt 310 x 16 Roto-Louvre Dryer. Completely equipped.
Buflovak 42" x 90" Double Drum Dryer. 15 HP Motor & Drive.
Louisville 54" x 35' long Monel Steam Tube Dryer. Code. New 1954.
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IMPORTS at United States Ports

New York

ALGINIC ACID—1 dm, Meer Corp, Glasgow
AMMONIUM CHLORIDE—42 dms, Philipp Bros Chemicals, Antwerp
ANGOSTURA BARK—26 bgs, J M Rodriguez, Ciudad Bolivar
ANILINE DYES—34 dms, Geigy Chemical Corp, Hamburg
53 dms, Sandoz Inc, Hamburg
75 dms, H Bruckmann & Lorbacher, Hamburg
12 dms, Carbic Hoechst Corp, Rotterdam
6 dms, H Bruckmann & Lorbacher, Bremen
34 dms, Rotterdam
ANIMAL CHARCOAL—1,000 bgs, American Sugar Refining Co, Glasgow
ANISE SEED—200 bgs, Malaga
ANTIMONY REGULUS—100 cs, Indussa Corp, Antwerp
ARABIC GUM—250 bgs, National City Bank, Port Sudan
100 bgs, Morgan Guaranty Trust Co, Port Sudan
ARROWROOT FLOUR—2,100 bgs, Morningstar Paisley Inc, St Vincent
ARSENIC, METALLIC—50 dms, Kolon Trading Co, Gothenburg
37 dms, Belmont Smelting & Refining Co, Gothenburg
ASAFETIDA—25 cs, Bushire
BALSAM—15 dms, Gillespie & Co, Acajutla
10 dms, Magnus Mabee & Reynard, Acajutla
BASIL LEAVES—22 bls, Wm E Martin & Sons, Marseille
BEESWAX—232 blks, Koster Keunen, Djibouti
101 blks, Wm Diehl & Co, Djibouti
126 bgs, S Zeitlins Sons, Paranagua
288 bgs, Manufacturers Trust Co, Lisbon
120 blks, Lobito
119 bls, Port Said
23 bgs, Havana
BONE—329 bgs, Velleman Corp, Santos
CADMIUM OXIDE—110 dms, Antwerp
CALCIFEROL—4 cs, Rotterdam
CALCIUM CARBONATE—600 bgs, Pluess Staufer, Antwerp
CALCIUM CYCLAMATE—10 dms, Gallard Schlesinger, Kobe
CALCIUM PHOSPHATE, DIBASIC—1,050 bgs, Wessel Duval & Co, Antwerp
CAMPHOR—7 dms, Hostachem Corp, Hamburg
300 dms, Hamburg
20 dms, Bremen
CAMPHOR OIL—10 dms, Fritzsche Bros, Yokohama
CANDELILLA WAX—188 bgs, Frank B Ross, Tampico
313 bgs, Tampico
CARAWAY SEED—200 bgs, Van de Vries Co, Rotterdam
600 bgs, Ideal Trading Co, Rotterdam
150 bgs, Levy & Levis Co, Rotterdam
100 bgs, Star Coffee Co, Rotterdam
300 bgs, Louis Furth, Rotterdam
200 bgs, Hoger Corp, Rotterdam
CARDAMOMS—7 cs, F N S Corp, London
7 cs, Frank Tea & Spice Co, London
10 cs, Kellys America Ltd, Mangalore
CARNAUBA WAX—125 bgs, Marine Midland Trust Co, Tutoia
188 bgs, Bank of London & SA, Tutoia
125 bgs, National City Bank, Tutoia
56 bgs, Bankers Trust Co, Fortaleza
167 bgs, Smith & Nichols, Fortaleza
251 bgs, Chase Manhattan Bank, Tutoia
184 bgs, S C Johnson & Son, Fortaleza
244 bgs, Frank B Ross, Fortaleza
168 bgs, M Argueso & Co, Fortaleza
33 bgs, Fortaleza
500 bgs, Tutoia
CASEIN—500 bgs, P A Dunkel, Buenos Aires
1,000 bgs, Milwakee Spice Mills, Rotterdam
5,500 bgs, E Lang, Buenos Aires
1,000 bgs, W L Willner, Buenos Aires
7,274 bgs, A J Mills & Co, Auckland
600 bgs, F C Gerlach, Buenos Aires
CASSIA—257 bls, Magna Enterprises, Djakarta
141 bls, Max Van Pels, Rotterdam
1,465 bls, Rotterdam
CASTOR OIL—200 tons, Spencer Kellogg, Recife
200 tons, Wallace & Tiernan, Fortaleza
263 tons, Calcutta
CELERY SEED—100 bgs, M J Golombeck, Marseille
CITRONELLA OIL—50 dms, L A Champon & Co, Keelung
25 dms, Lo Curto & Funk, San Jose
25 dms, George Uhe Co, Keelung
25 dms, Manufacturers Trust Co, Keelung
50 dms, Keelung
COCONUT OIL—250 tons, D S Hawkins & Co, Manila
633 tons, Pacific Vegetable Oil Corp, Manila
590 tons, American Trust Co, Cebu
COD OIL—200 dms, Scandinavian Oil Co, St Johns
100 dms, Ottol Oil Co, St Johns
COGNAC OIL—2 djns, Magnus Mabee & Reynard, Hamburg
CONDURANGO BARK—115 bgs, National City Bank, Paita
COPAL GUM—80 bgs, S Winterbourne & Co, London
67 bgs, Wm H Scheel, Manila
CORN OIL—340 tons, Corn Products Co, Rotterdam
CORN STARCH—2,200 bgs, Impex Agricultural Co, Rijeka
100 bgs, Rotterdam
CROTONIC ACID—30 dms, Hostachem Corp, Hamburg
CUMIN SEED—273 bgs, M J Golombeck, Khorramshahr
272 bgs, W L Willner, Khorramshahr
150 bgs, Am-Iran Corp, Khorramshahr
300 bgs, Middleton & Co, Istanbul
700 bgs, Khorramshahr
DAMMAR GUM—50 cs, O G Innes Corp, Bangkok
42 bgs, O G Innes Corp, Singapore
DEGRAS—52 dms, Silvey Shipping Co, Brisbane
DEXTRIN—400 bgs, Morningstar Paisley Inc, Rotterdam
300 bgs, Manufacturers Trust Co, Rotterdam
DIACETYL—1 dm, Hamburg
FURFURAL—901 tons, E I Dupont De Nemours & Co, La Romana
GINGER—39 bgs, Kellys America Ltd, Kingston
11 bgs, Cliquot Club Co, Kingston
d-GLUCOSAMINE HYDROCHLORIDE—1 cs, Red Star Chemical Co, Yokohama
GLYCOL MONOSALICYLATE—50 cs, Havre
GRAPHITE—600 bgs, Asbury Graphite Mills, Bremen
GYPSUM, CRUDE—10,114 tons, U S Gypsum Co, Hantsport
11,466 tons, Allied Chemical Corp, Halifax
HYDRAZINE HYDRATE—50 dms, E F Drew & Co, Bremen
HYDROXYCITRONELLAL—5 cks, George Uhe Co, Marseille
IODINE, CRUDE—545 kgs, Chilean Nitrate Sales Corp, Antofagasta
50 dms, Bunge Corp, Yokohama
40 dms, Yokohama
IRISH MOSS EXTRACT—10 dms, E Mendell Co, Bergen
LEMON OIL—8 cs, Palermo
LITHARGE—184 dms, Eagle Picher Co, Tampico
LOCUST BEAN GUM—60 bbls, T M Duche & Sons, Rotterdam
100 bgs, T M Duche & Sons, Rotterdam
100 bgs, Wm M Allison & Co, Portimao
500 bgs, J L Quesada, Portimao
MANGANESE BLUE—11 dms, Naftone Inc, Bremen
MENTHOL—15 cs, International Agricultural Corp, Pusan
15 cs, Fleischman Burd & Co, Keelung
50 cs, Magnus Mabee & Reynard, Keelung
4 cs, Fritzsche Bros, Pusan
65 cs, American Far Eastern Syndicate, Santos
25 cs, Lo Curto & Funk, Santos
47 cs, Lo Curto & Funk, Keelung
20 cs, Keelung
MERCURY—1,025 flks, Cadiz
MOLASSES—2,114,318 gals, S Western Sugar & Molasses, Barahona
MONTAN WAX—40 bgs, Dura Commodities Corp, Rotterdam
MUSK, ARTIFICIAL—20 dms, Lo Curto & Funk, Rotterdam
NAPHTHALENE—1,361 bgs, J N Forker, Liverpool
1,633 bgs, Witco Chemical Co, Liverpool
1,122 bgs, Marine Midland Trust Co, Liverpool
500 bgs, Gallard Schlesinger, Antwerp
NIACIN—54 dms, Basic Food Materials, Genoa
NICKEL ACETATE—20 dms, Hamburg
NIGER SEED—235 bgs, Massawa
NOPYL ACETATE—2 dms, Schimmel & Co, London
OLIVE OIL—537 dms, Swiss Credit Bank, Malaga
50 dms, Chase Manhattan Bank, Malaga
200 dms, Atlantic Bank of N Y, Malaga
25 dms, Morgan Guaranty Trust Co, Seville
50 dms, Marine Midland Trust Co, Seville
100 dms, Chase Manhattan Bank, Seville
300 dms, Hanover Bank, Malaga
OLIVE OIL—23 dms, A N Cory, Seville
25 dms, A N Cory, Seville
50 dms, Manufacturers Trust Co, Seville
200 dms, Seville
100 dms, Malaga
OURICURY WAX—56 bgs, Salvador
PALM OIL—891 tons, Balfour Guthrie, Boma
PALMKERNEL OIL—400 tons, Balfour Guthrie, Matadi
893 cs, B M T Commodity Corp, Rotterdam
PATCHOULI OIL—10 dms, Dodge & Olcott, Penang
22 dms, International Flavors & Fragrances Inc, Penang
6 dms, Givaudan Corp, London
PEPPER, BLACK—140 bgs, Hudson Trust Co, Singapore
140 bgs, Daarnhower & Co, Singapore
80 bgs, Max Van Pels, Singapore
1,120 bgs, A G Dunn, Singapore
220 bgs, Polak Trading Co, Singapore
280 bgs, C Czarinkow, Singapore
190 bgs, J H Elton, Singapore
70 bgs, Mutual Spice Co, Singapore
220 bgs, Ludwig Mueller, Singapore
140 bgs, Atlanta Textile Corp, Singapore
780 bgs, Singapore
400 bgs, Alleppey
PEPPER, RED—100 bgs, Pacific Trading Co, Yokohama
200 bgs, M J Golombeck, Yokohama
200 bgs, American Commerce Co, Yokohama
PEPPER, WHITE—350 bgs, Singapore
PIMENTO—240 bgs, M J Golombeck, Kingston
80 bgs, Louis Furth, Kingston
PIMENTO LEAF OIL—12 dms, Fritzsche Bros, Kingston
POLYVINYL ALCOHOL—200 bgs, Marubeni Iida Co, Kobe
POTASSIUM NITRATE—50 bgs, Mundus Chemical Products Corp, Trieste
QUEBRACHO EXTRACT—5,061 bgs, American Tanners Ltd, Buenos Aires
510 bgs, Barkey Importing Co, Buenos Aires
520 bgs, International Products Corp, Buenos Aires
QUINIDINE SULFATE—5 dms, Chas L Huisking & Co, Hamburg
RAUWOLFIA SERPENTINA ROOT—60 bgs, Calcutta
RESIN, NATURAL—140 bgs, S Winterbourne & Co, Singapore
d-RIBONOLACTONE—10 dms, Hoffmann-La Roche Inc, Hamburg
RICE STARCH—200 bgs, American Key Products, Trieste
RUTILE SAND—4,700 bgs, International Titanium Corp, Brisbane
SAGE LEAVES—80 bls, M J Golombeck, Piraeus
400 bls, K H Werthon, Trieste
SANDALWOOD OIL—9 cs, National City Bank, Cochin
SEEDLAC—250 bgs, Irving Trust Co, Bangkok
250 bgs, National City Bank, Bangkok
2,350 bgs, Calcutta
SESAME SEED—500 bgs, Ideal Trading Co, Cornito
300 bgs, Louis Furth, Corinto
1,000 bgs, M J Golombeck, Corinto
600 bgs, M J Golombeck, Massawa
SHELLAC—250 bgs, United Shellac Corp, Calcutta
975 bgs, Calcutta
SODIUM CYANIDE—120 dms, Ugine Industries, Havre
SODIUM CYCLAMATE—20 dms, Kobe
STEARYL ALCOHOL—600 bgs, A & S Corp, Yokohama
THIOUREA—382 bgs, Baird Chemical Industries, Moji
THYME LEAVES—33 bbls, Wm E Martin & Sons, Marseille
TITANIUM DIOXIDE, ANATOSE—3,308 bgs, Kobe
TONKA BEANS—94 cks, Machado & Co, Port of Spain
TRAGACANTH GUM—13 cs, Lo Curto & Funk, Khorramshahr
241 bgs, Am-Iran Corp, Khorramshahr
7 cs, Flora Lac Co, Khorramshahr
277 bgs, Meer Corp, Khorramshahr
305 bgs, Khorramshahr
TUNG OIL—230 tons, Bunge Corp, Buenos Aires
ULTRAMARINE BLUE—100 bgs, Whittaker Clark & Daniels, London
UREA, SYNTHETIC—625 bgs, Chemical Manufacturing Co, Manchester
VETIVER OIL—2 dms, L A Champon & Co, Port Au Prince
2 dms, A Verley & Co, Marseille
1 dm, Port Au Prince
ZINC OXIDE—400 bgs, Harrisons & Crosfield, Liverpool
600 bgs, Marseille
ZIRCON SAND—5,572 bgs, Lo Curto & Funk, Brisbane

Los Angeles

ANTIMONY REGULUS—50 cs, Indussa Corp, Antwerp
CASTOR OIL—225 tons, Baker Castor Oil Co, Recife
COPRA—500 tons, Procter & Gamble Co, Tacloban
665 tons, Procter & Gamble Co, Nasipit
1,250 tons, Wells Fargo Bank, Cebu
500 tons, Paul X Smith, Cebu
1,500 tons, Paul X Smith, Siain
4,500 tons, Wells Fargo Bank, Siain
350 tons, Smith Vegetable Oil Products Co, Siain
CUMIN SEED—36 bgs, Hismoco American Co, Genoa
IRON OXIDE—4,684 bgs, F D Davis Co, London
500 bgs, Malaga
OLIVE OIL—100 dms, Leghorn Trading Co, Malaga
PEPPER, BLACK—70 bgs, Singapore
PEPPER, RED—150 bgs, T P Gonzalez, Kobe
TAPIOCA FLOUR—448 bgs, Morningstar Paisley Inc, Bangkok

Philadelphia

MUSTARD SEED—1,000 bgs, R T French, Copenhagen
QUEBRACHO EXTRACT—400 bgs, Buenos Aires
TAPIOCA FLOUR—672 bgs, Woodward & Dickerson, Kohsichang
849 bgs, Poons Co, Kohsichang
1,000 bgs, Kohsichang
WATTLE BARK—1,110 bgs, Chemical Bank, Durban

Polyacetone Resin

—*Continued from page 5*

search. DuPont reportedly solves the problem of water splitting off its polymer by capping the active ends—just as the Russians hope to do with polyacetone.

DuPont's method of capping involves making either an ether with methanol and an acid, or an ester with acetic anhydride. This makes the molecule stable, and the company says that each chain contains more than 1,000 formaldehyde units.

Economic advantages of using acetone as a building block are manifest. It costs 8 cents a pound, tankcars, delivered. On the other hand, some other monomer costs include:

Vinyl acetate monomer, 15.6 cents, tankcars, delivered; vinyl chloride monomer, 8.91 cents a pound, tankcars, f.o.b. works; styrene monomer, polymer grade, 14½ cents a pound, tanks, freight allowed.

Bids Wanted

Medical and Pharmaceutical Preparations, Chloroquine Phosphate tablets, USP, 250 mg., containing 0.15 mg. chloroquine base, 48,000 containers, and/or **Amodiaquine Hydrochloride** tablets, USP, containing 200 mg. of amodiaquine base, 35,955 containers. **Chloroquine Phosphate** tablets, USP, 250 mg. containing 0.15 gm. chloroquine base, 16,500 containers, and/or **Amodiaquine Hydrochloride** tablets, USP, containing 200 mg. of amodiaquine base, 12,375 containers, Bid IFB FNG-4R-28364-A, Jan 9; **Primiaquine Phosphate** tablets, USP, 2.5 mg. primiaquine base per tablet, 86,750 containers, **Primiaquine Phosphate** tablets, USP, 2.5 mg. primiaquine base per tablet, 29,250 containers. Bid IFB ENG-4R-285881-A, Jan 11. General Services Administration, Region 2, Business Service Center, 7th and D Streets, Washington 25, D. C. **Tetracycline Hydrochloride**, USP, intramuscular sterile, in vial, 100 mg. 100,000 vials, 250 mg. 13,000 vials. **Tetracycline Hydrochloride**, USP, intravenous, sterile, in vial, 250 mg., 2,000 vials, 500 mg., 30,600 vials. **Hydrochlorothiazine**, 50 mg., 100S, 150 bots., 1,000S, 400 bots. **Novobiocin Sodium** capsules, 250 mg., 100S, 1,800 bots. Bid IFB M5-67-61, Jan 17. **Dihydrostertomycin Sulfate**, USP, injection, 1 gm. in 2.5 vial, 3,400 vials, 5 gm. in 12.5 vial, 7,500 vials. **Streptomycin Sulfate**, USP, powder, 1 gm, 3,725 vials, 5 gm. 31,350 vials, injection (solution) 1 gm. in 2.5 vial, 72,000 vials, 5 gm. in 12.5 vials, 167,250 vials. Bid IFB M5-69-61, Jan. 17. Marketing Division for Drugs and Chemicals, VA Supply Depot, Somerville, N. J. **Aminophyline**, USP, 2 ml., 0.5 gm. (7½ gr.), intramuscular, 25 ampuls, 100 bxs. **Aminophyline**, injection, USP, 20 ml., 0.5 gm., intravenous, 6 ampuls, 2,000 bxs., 25 ampuls, 600 bxs. **Cortisone Acetate** tablets, USP, 5 mg., 50 S, 300 bots. **Cortisone Acetate** tablets, USP, 25 mg., 100 S, 3,000 bots. **Cortisone Acetate**, suspension, sterile, USP, 25 mg. per ml., 20 ml., 1,800 vials. **Hydrocortisone** tablets, USP, 10 mg. 100 S, 475 bots., 20 mg., 100 S, 3,050 bots. **Procaine Hydrochloride** cartridges, 100, with epinephrine, USP 1:25,000 0.00004 gm. per ml., 50 bxs., with epinephrine, USP, 1:50,000 0.00002 gm. per ml., 175 bxs., without epinephrine, 50 bxs. **Testosterone Propionate**, injection, USP 25 mg. per ml., 1 ml, 50 S, 75 bxs., 10 ml. 2,500 vials. **Viomycin Sulfate**, for intramuscular injection, 1 gm., 20,050 vials, 5 gm., 4,350 vials. Bid IFB M5-65-61, Jan. 17. **Bacitracin**, USP 50,000 units, sterile powder for tropical and intramuscular use, 5,000 vials, **Epinephrine**, inhalation, USP, 1/100 5 ml., 125 bots. **Epinephrine**, injection, 1/1,000 dilution, USP, 12 S 1 ml. 600 bxs. **Epinephrine**, injection, 1,000 dilution, USP, bots., with rubber diaphram closure, 30 ml., 2,400 bots. **Isoniazid**, tablets, USP, 0.1 gm., 1,000 S, 15,000 bots. **Pantopaque**, ampuls, 3 ml., 3 S, 2,400 packages. **Penicillin & Procaine** suspension, sterile, USP, 300,000 units per 1 ml., 10 ml., 291,200 vials. **Propylthiouracil** tablets, USP, 25 mg., 100 S, 50 bots., 1,000 S, 50 bots. **Sodium Aminosalicylate**, USP, 2½ kg., 4,725 drums. Bid IFB M5-66-61, Jan. 17. Marketing Division for Drugs and Chemicals, VA Supply Depot, Somerville, N. J.

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